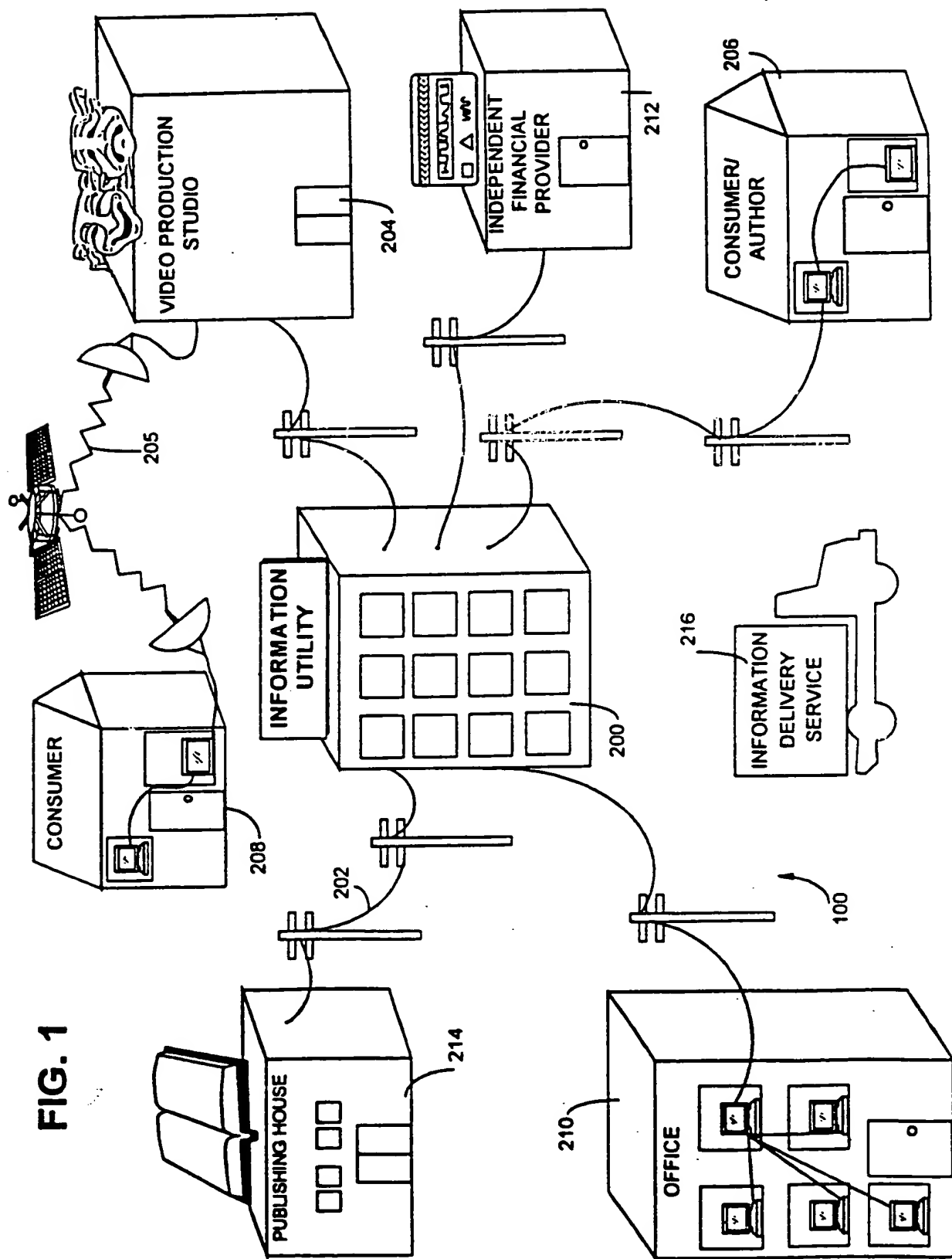


FIG. 1





**0963-4768**

**FIG. 2**

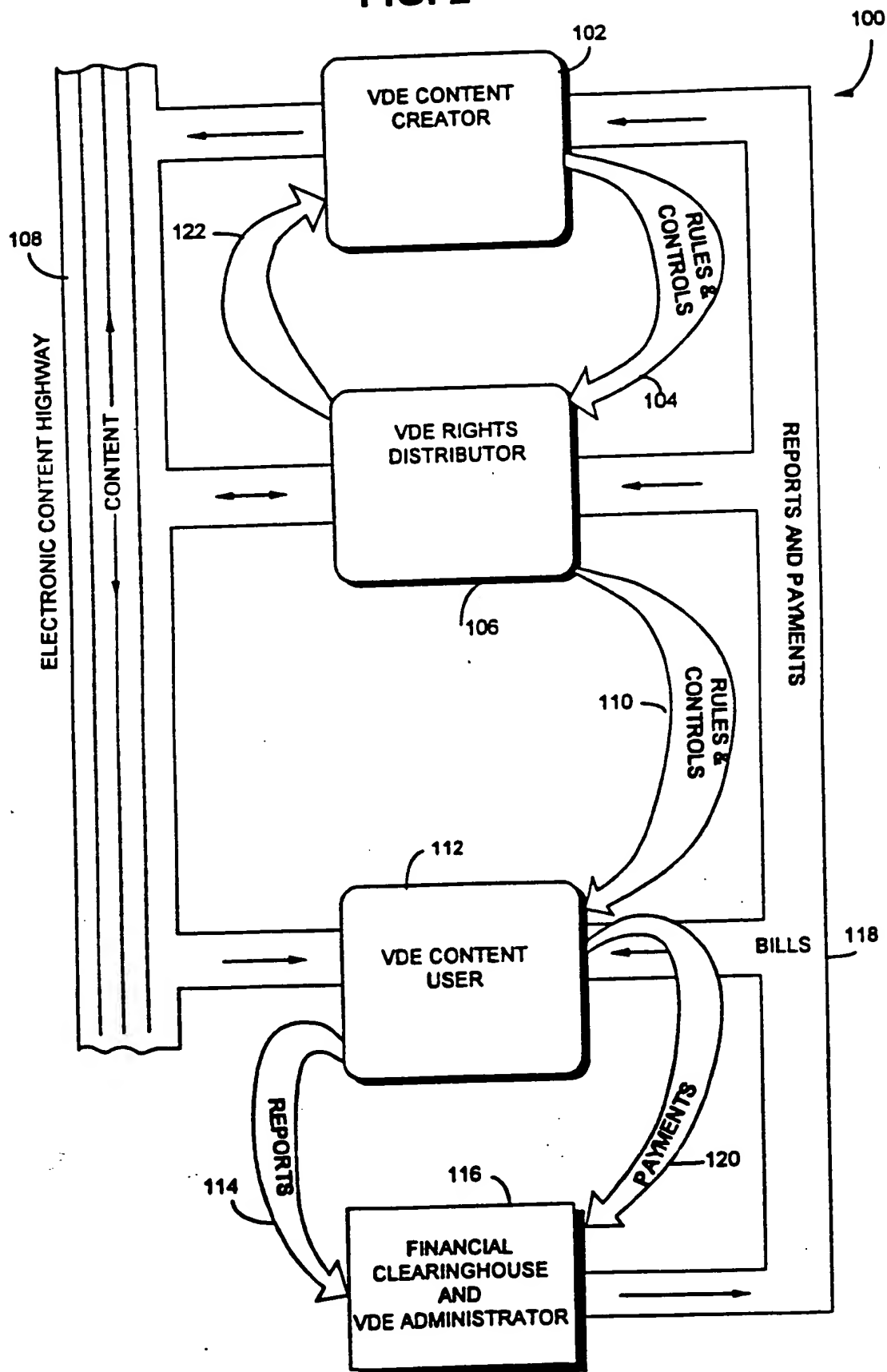
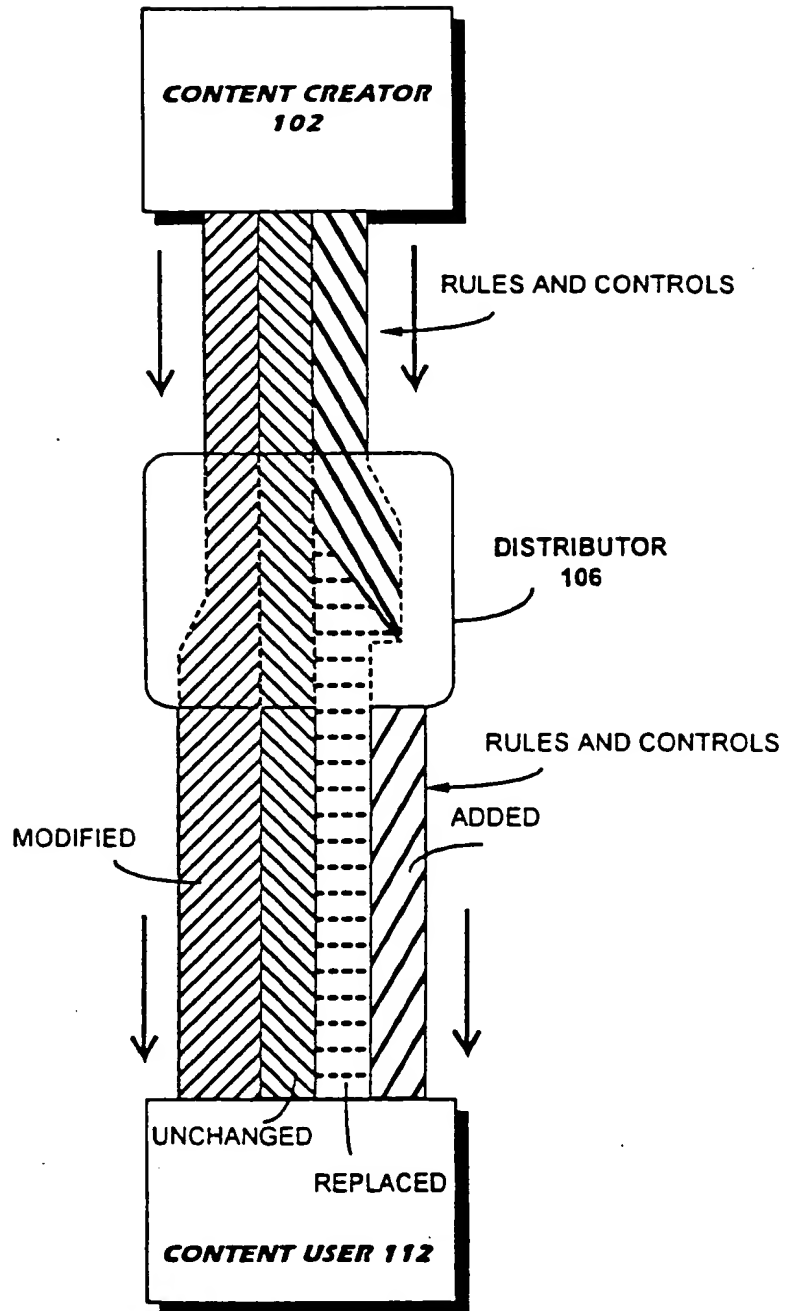


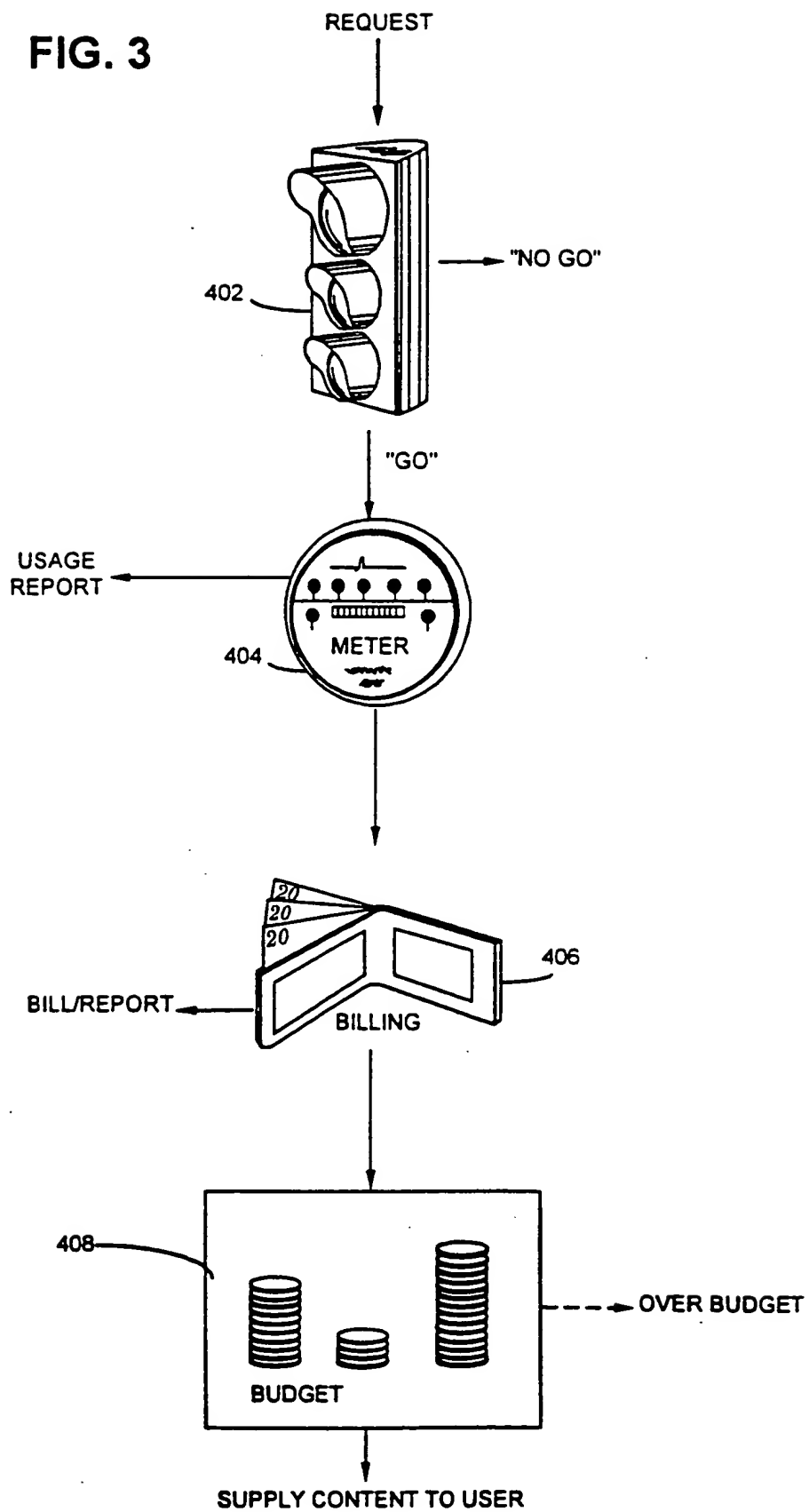
FIG. 2A



004080" 1115212960



FIG. 3



004030"4452E960

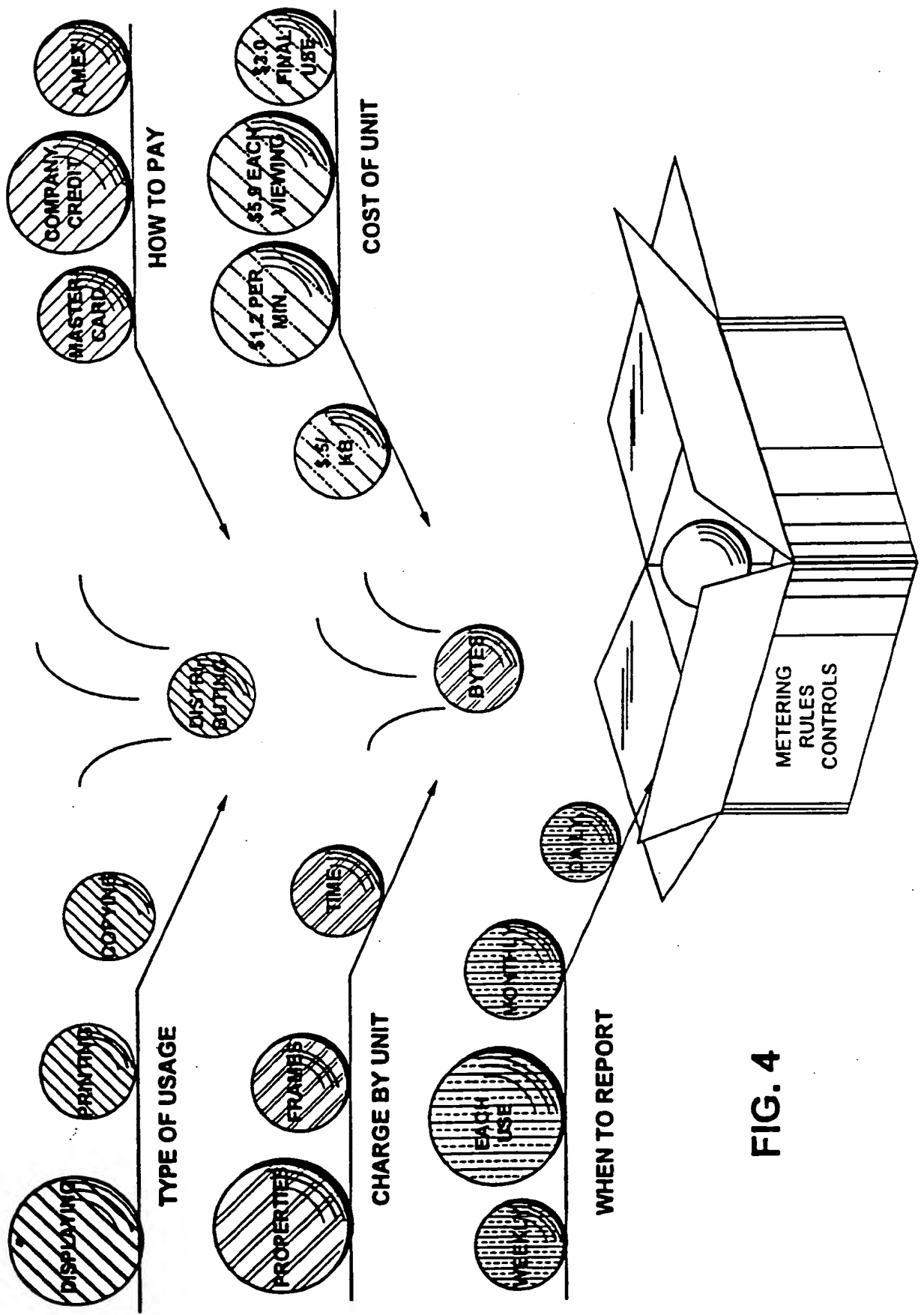


FIG. 4

004080" 11152E960

FIG. 5A

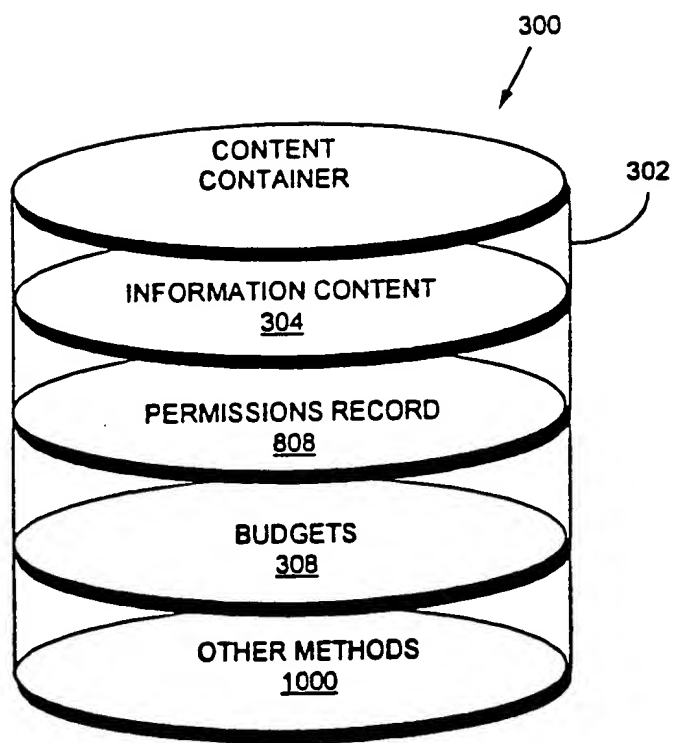


FIG. 5B

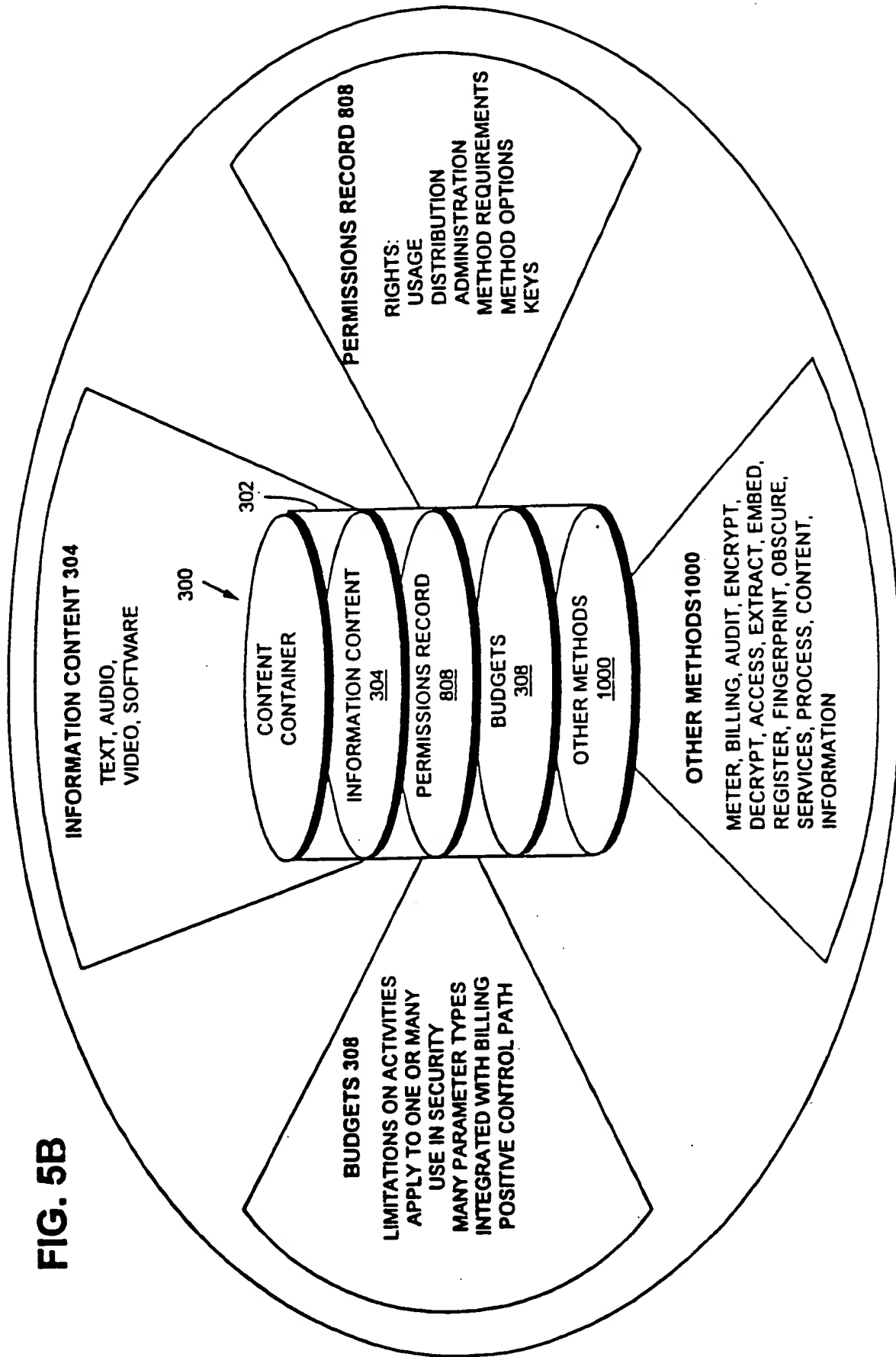
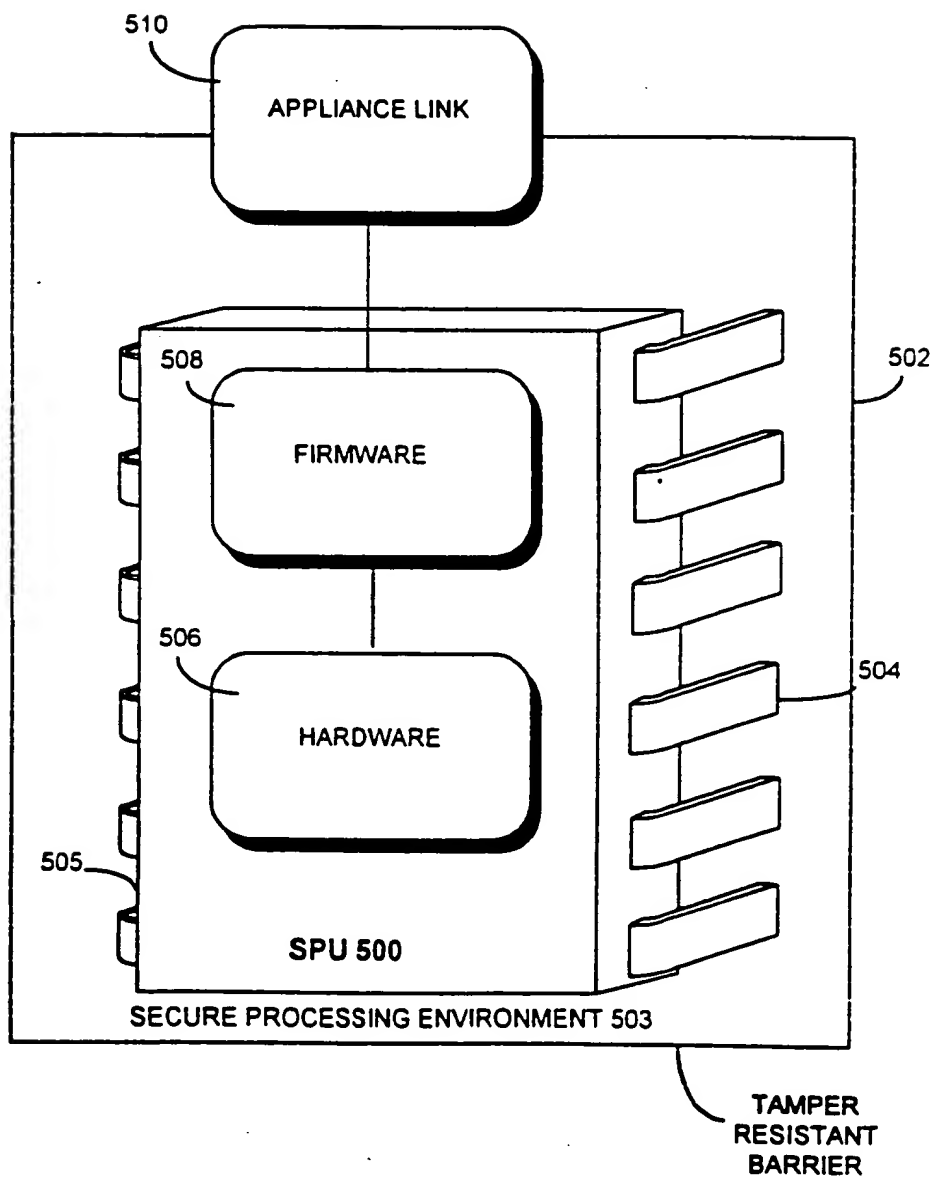
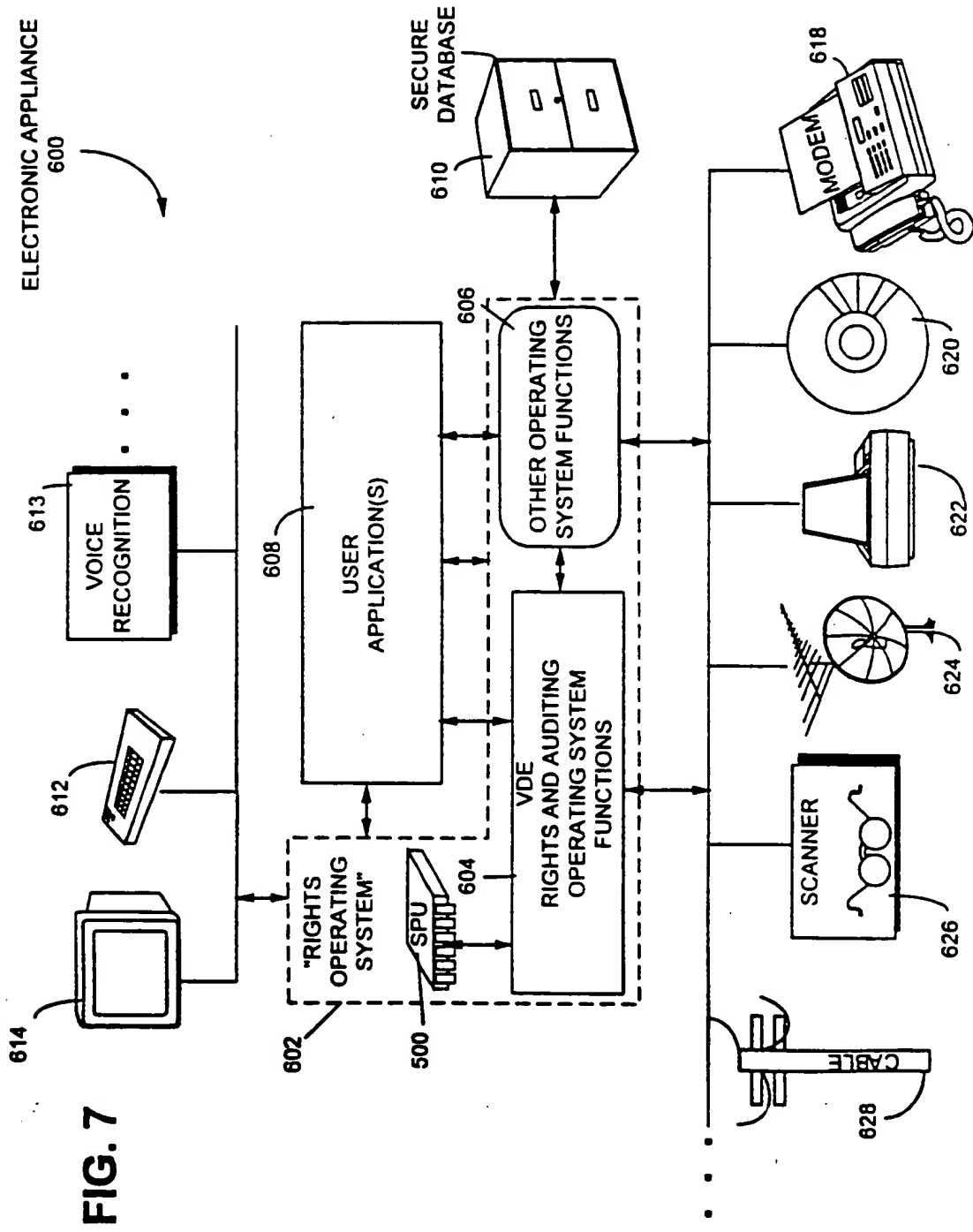
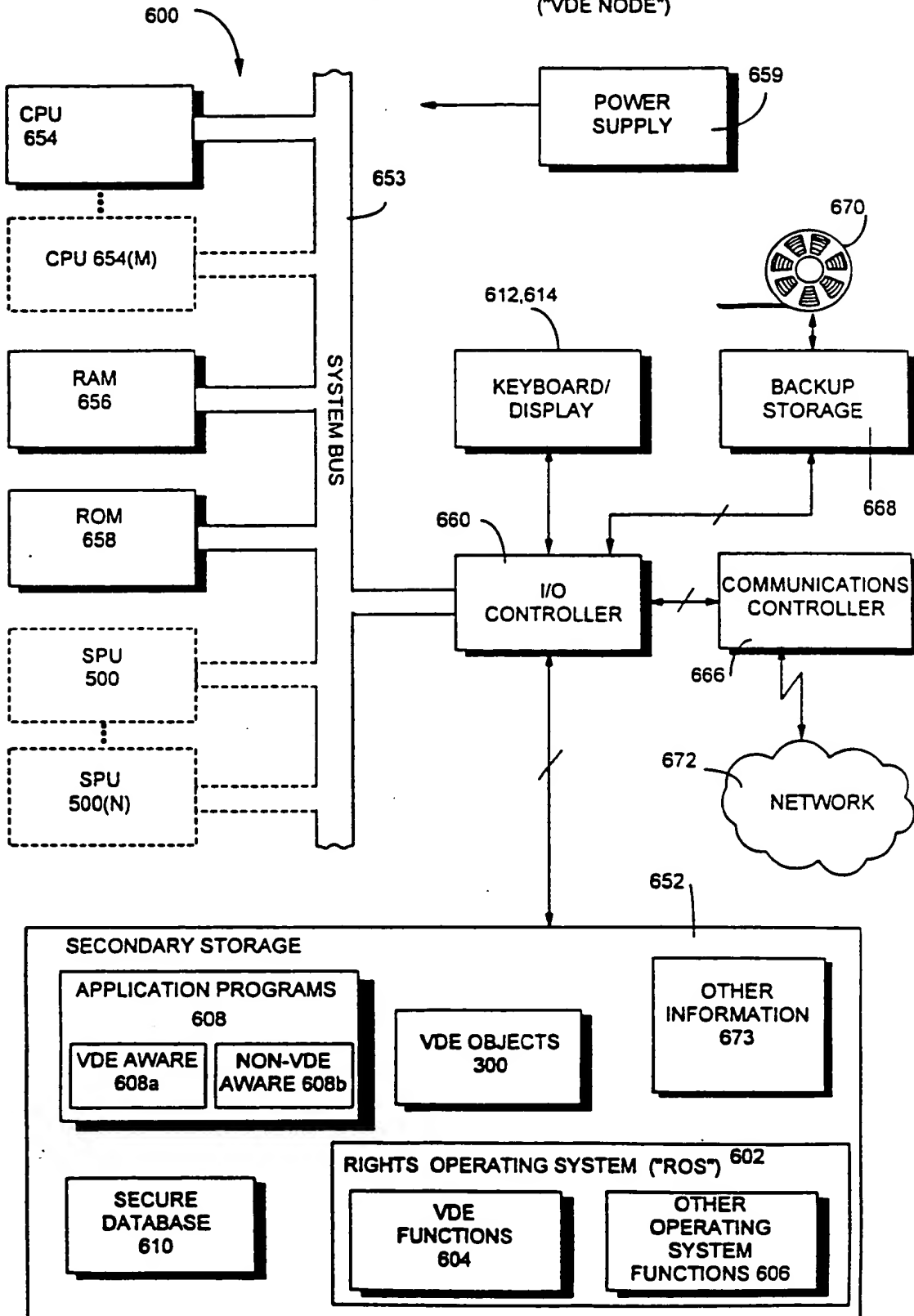


FIG. 6

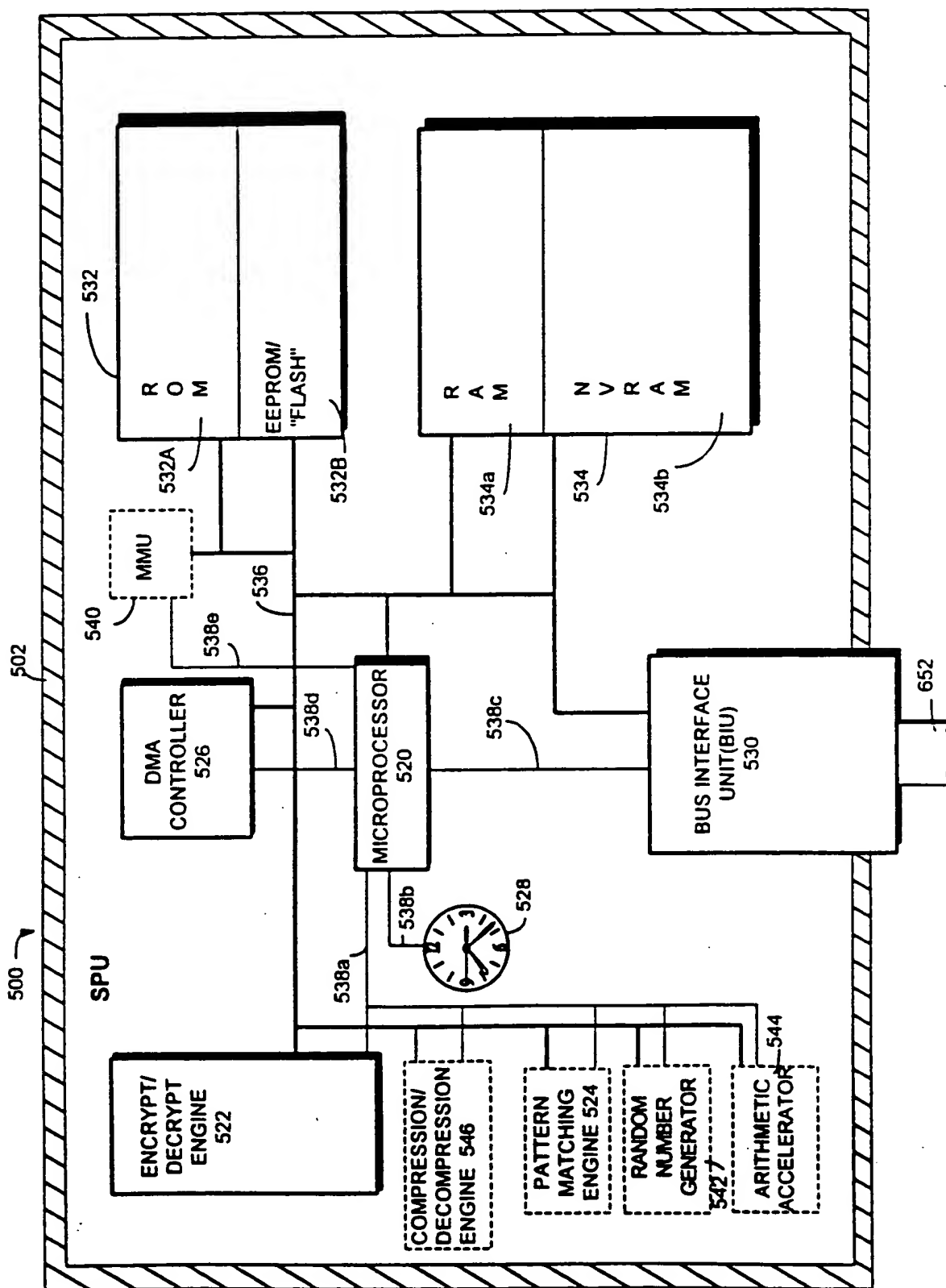




**FIG. 8** ELECTRONIC APPLIANCE 600  
("VDE NODE")



**FIG. 9**









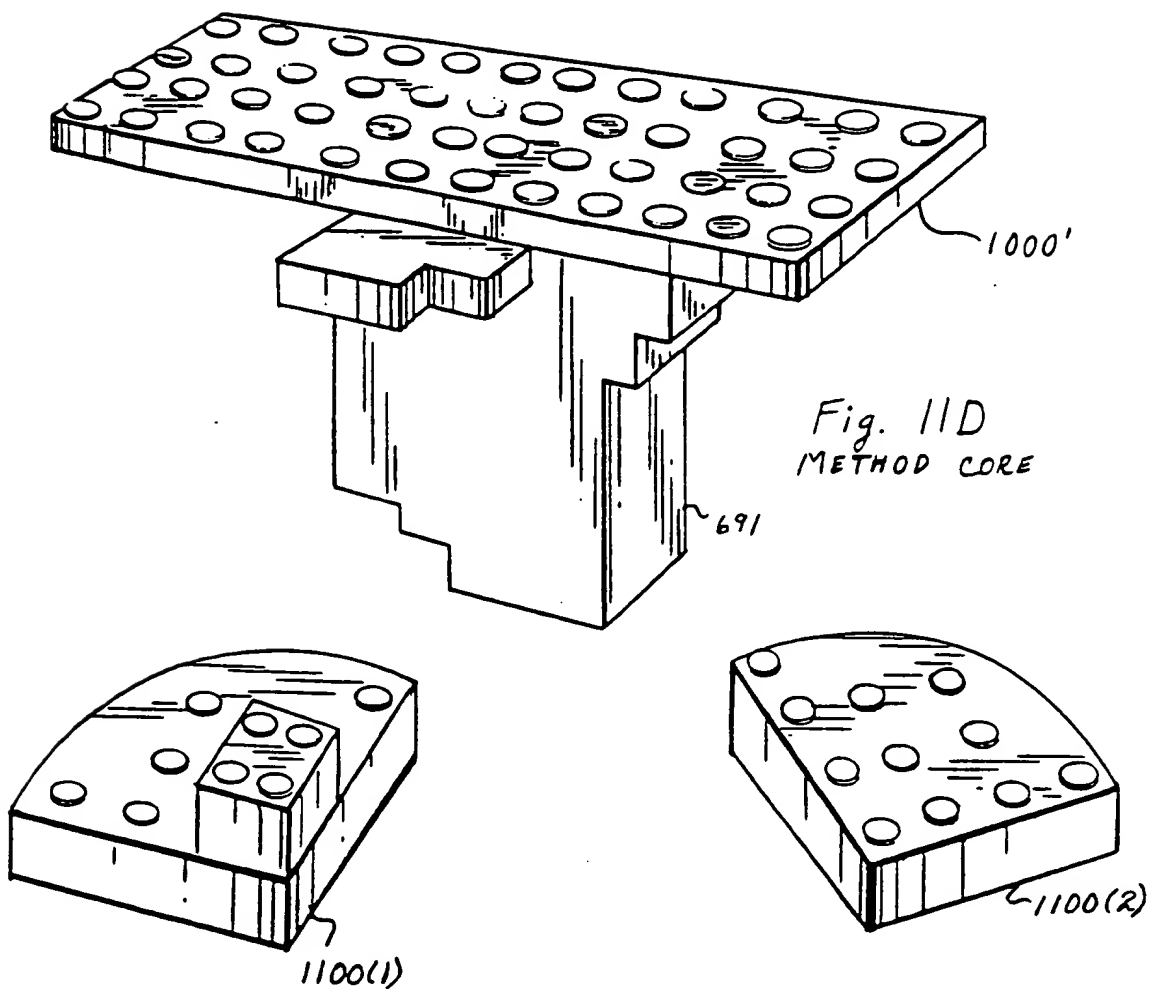
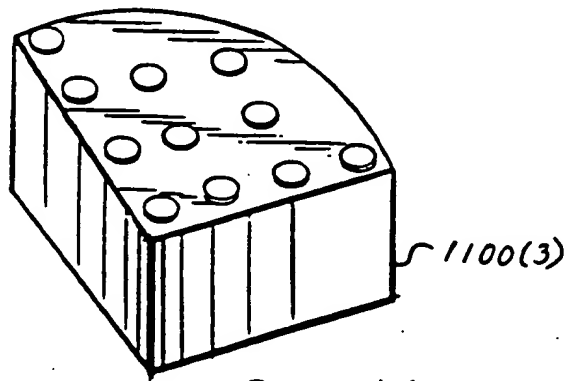


Fig. 11F  
LOAD MODULE



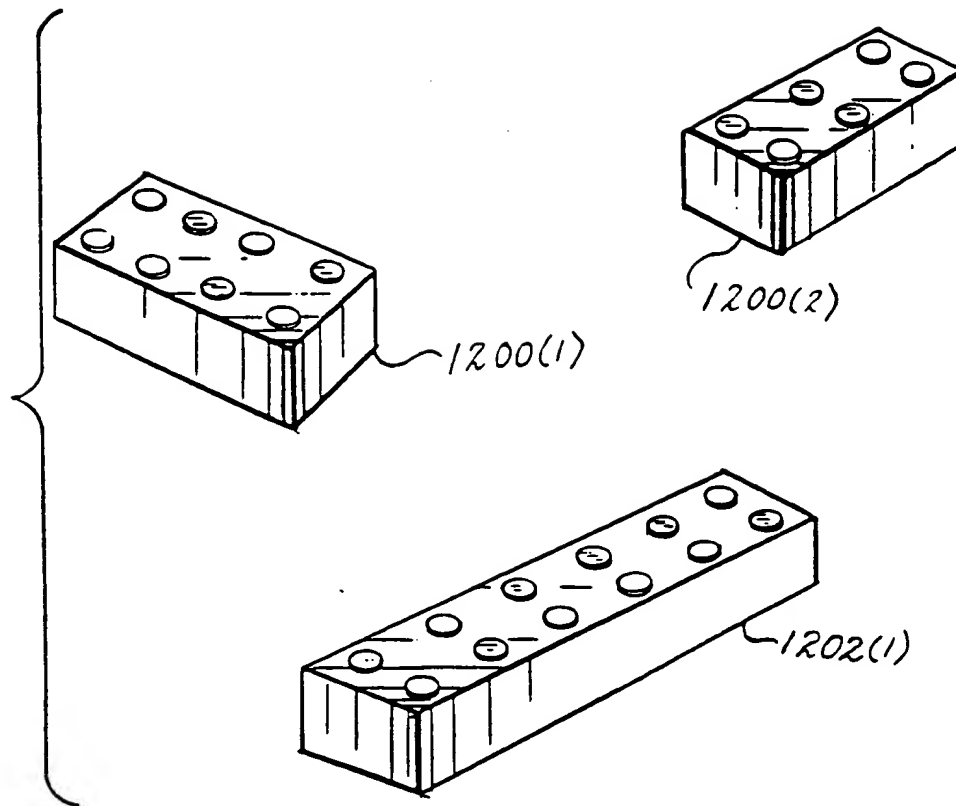
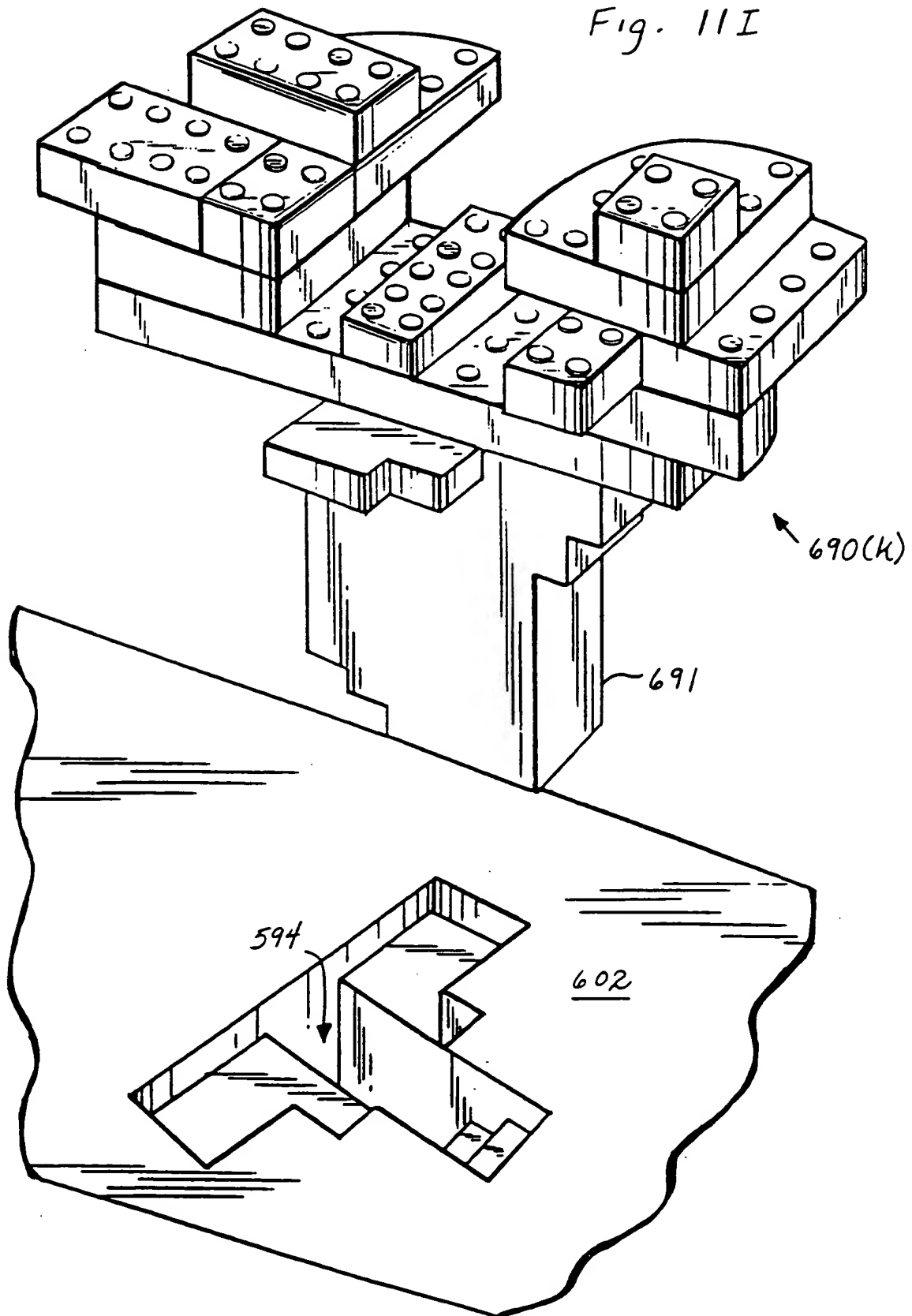


Fig. 11H  
DATA STRUCTURES

Fig. 11I



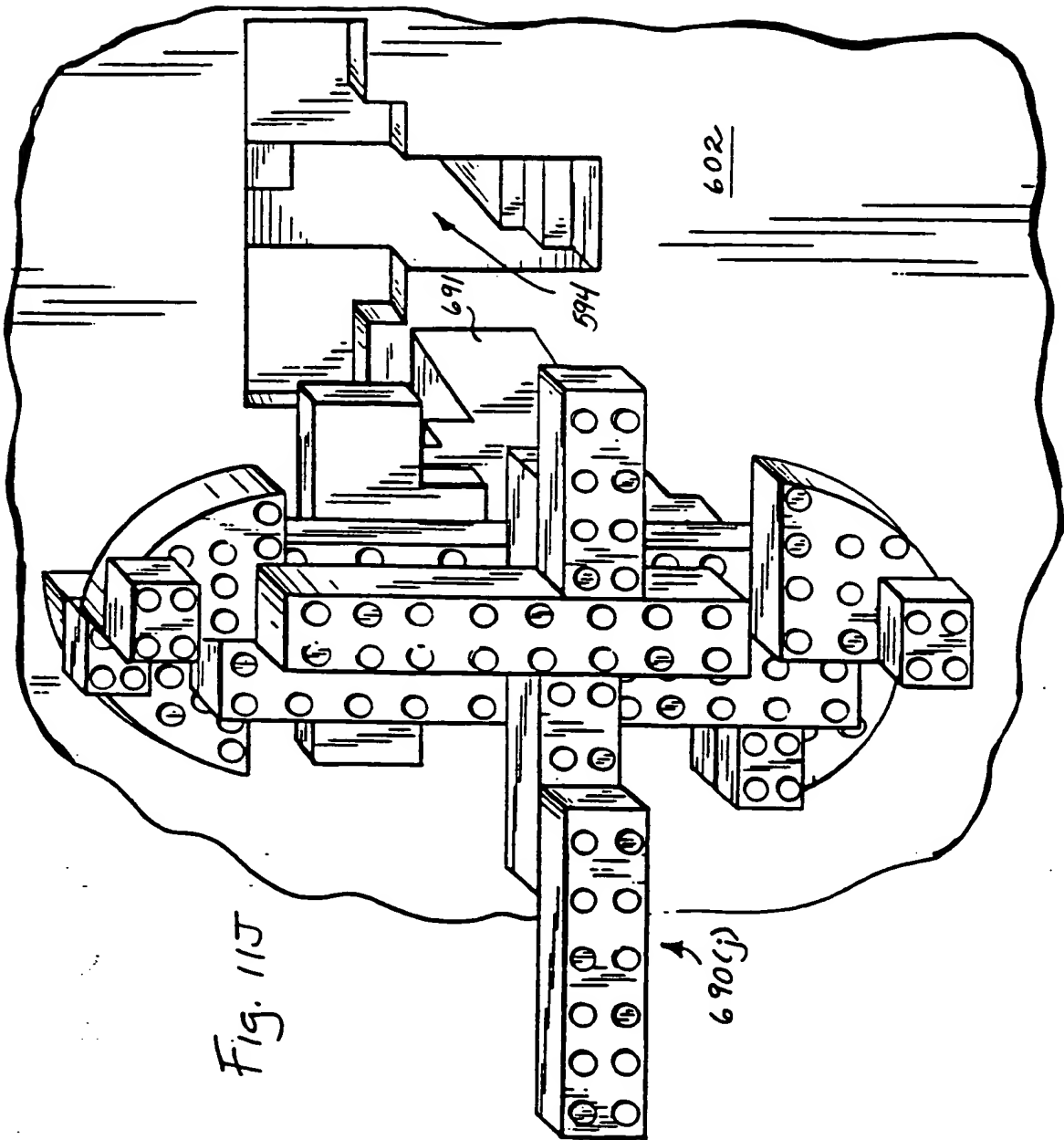


Fig. 11J



**FIG. 12A**  
OBJECT CREATION

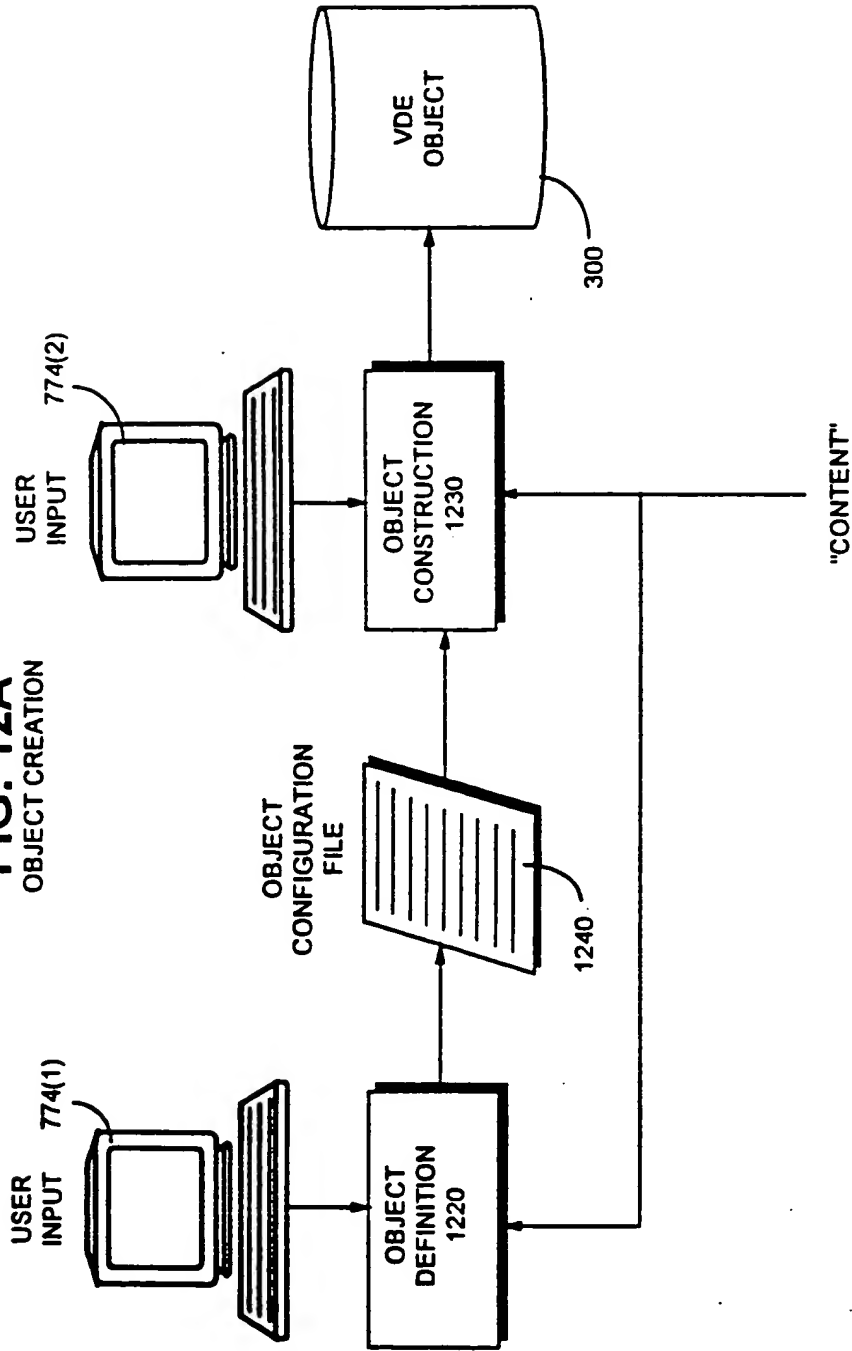
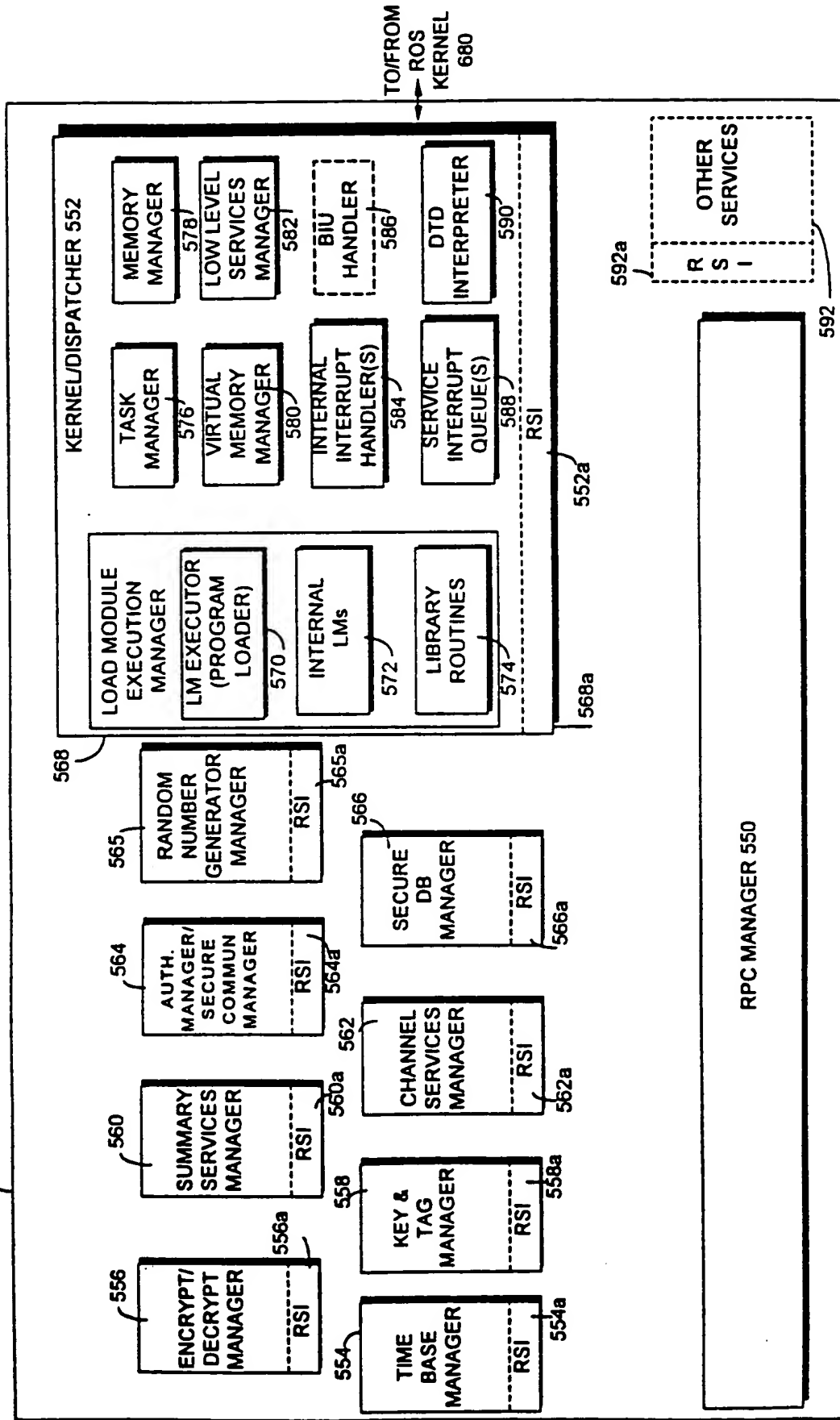




FIG. 13

PROTECTED PROCESSING ENVIRONMENT 650

503, 655



**DEVICE FIRM WIRE LOW LEVEL SERVICES 582**

INITIALIZATION

POST

DOWNLOAD  
CHALLENGE/RESPONSE AND  
AUTHENTICATION

RECOVERY

EEPROM/FLASH MEMORY  
MANAGER**KERNEL/DISPATCHER 552**

INITIALIZATION

TASK MANAGER 576  
(SLEEP/AWAKE/CONTEXT SWAP)INTERRUPT HANDLER 584  
(TIMER/BIU/POWER FAIL/WATCHDOG  
TIMER/ENCRYPTION COMPLETED)

BIU HANDLER 586

**MEMORY MANAGER 578**INITIALIZATION (SETTING MMU  
TABLES)

ALLOCATE

DEALLOCATE

**VIRTUAL MEMORY MANAGER 580**

SWAP BLOCK PAGING

EXTERNAL MODULE PAGING

MEMORY COMPRESS

**RPC AND TABLES 550**

INITIALIZATION

MESSAGING CODE /SERVICES  
MANAGER

SEND/RECEIVE

STATUS

RPC DISPATCH TABLE

RPC SERVICE TABLE

**TIME BASE MANAGER 554****ENCRYPTION/DECRYPTION MANAGER 556**

PK

BULK

**KEY AND TAG MANAGER 558**

KEY STORAGE IN EEPROM

KEY LOCATOR

KEY GENERATOR

CONVOLUTION ALGORITHM

**SUMMARY SERVICES MANAGER 560**

EVENT SUMMARIES

BUDGET SUMMARIES

DISTRIBUTER SUMMARY SERVICES

**CHANNEL SERVICES MANAGER 562**

CHANNEL HEADERS

CHANNEL DETAILS

**LOAD MODULE EXECUTION SERVICES 568****AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564****DATABASE MANAGER 566**

MANAGEMENT FILE SUPPORT

TRANSACTION AND  
SEQUENCE NUMBER SUPPORT

SRN/ HASH

DTD INTERPRETER 590

LIBRARY ROUTINES 574

I/O CALLS (STRING SEARCH ETC.)

MISC. ITEMS THAT ARE PROBABLY  
LIBRARY ROUTINES

TAG CHECKING, MD5, CRC'S

INTERNAL LM'S 572 FOR BASIC  
METHODS

METER LOAD MODULE(S)

BILLING LOAD MODULE(S)

BUDGET LOAD MODULE(S)

AUDIT LOAD MODULE(S)

READ OBJECT LOAD MODULE(S)

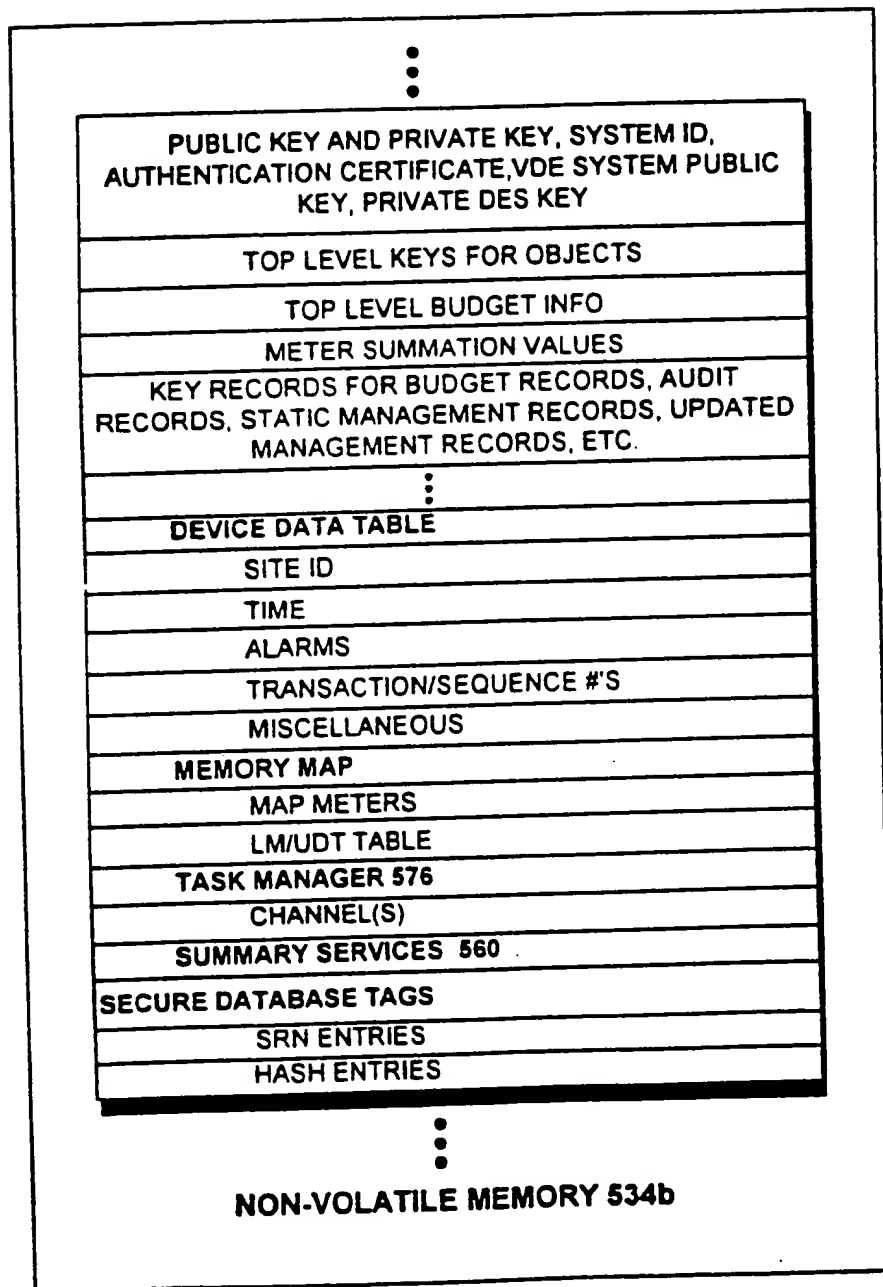
WRITE OBJECT LOAD MODULE(S)

OPEN OBJECT LOAD MODULE(S)

CLOSE OBJECT LOAD MODULE(S)

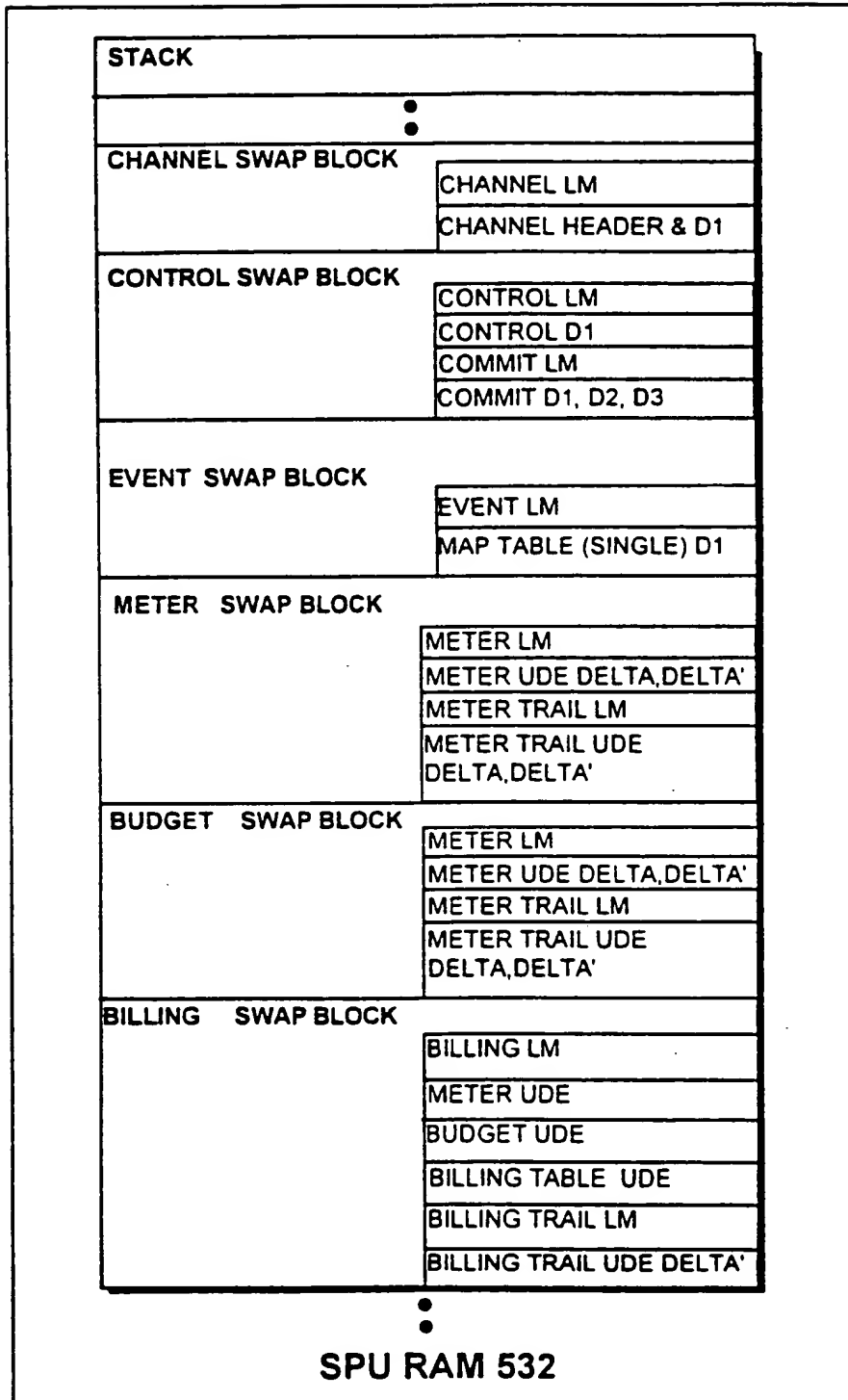
**FIG. 14A**

**FIG. 14B**



004080" 1162960

FIG. 14C



004080" 1162E960

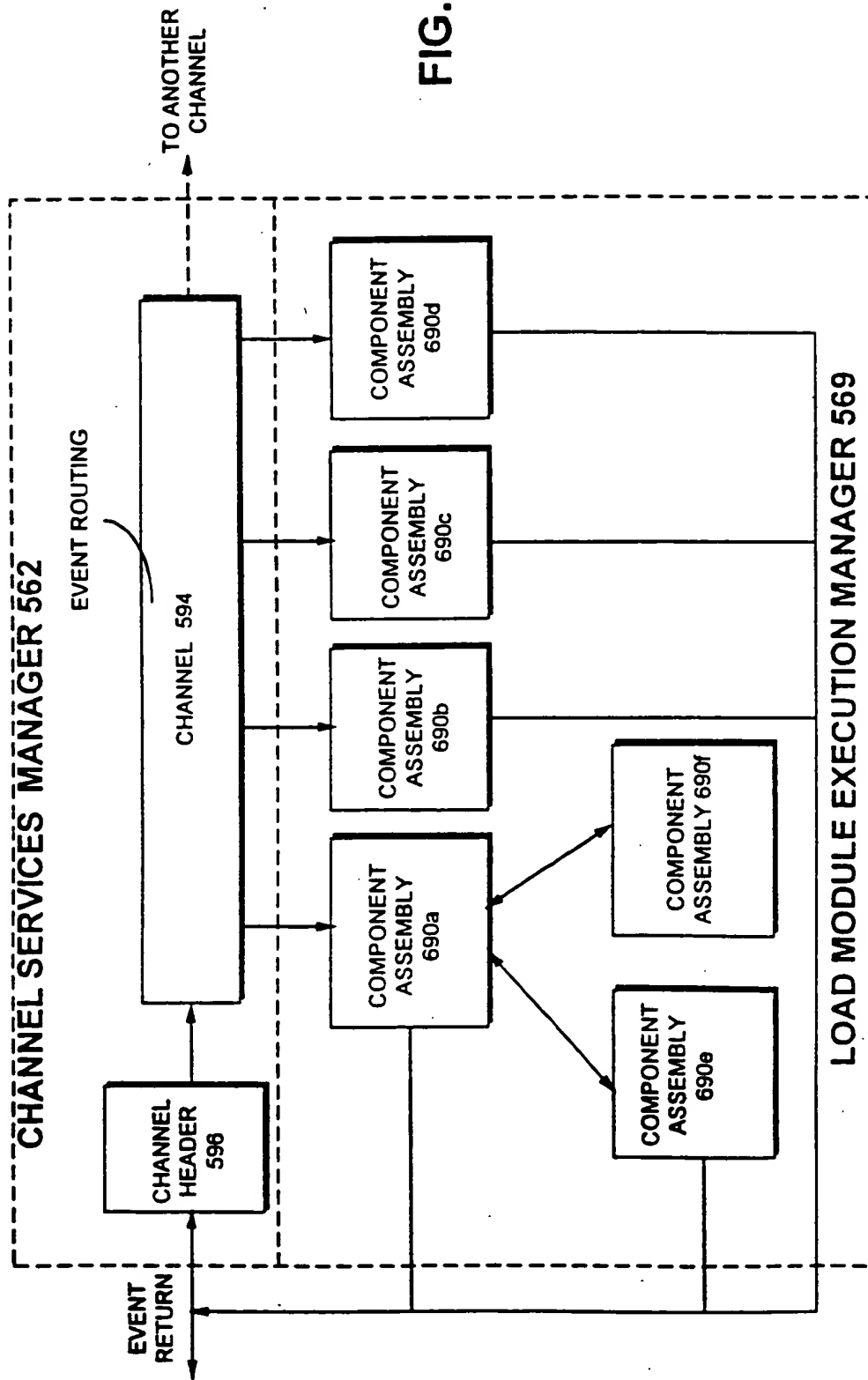
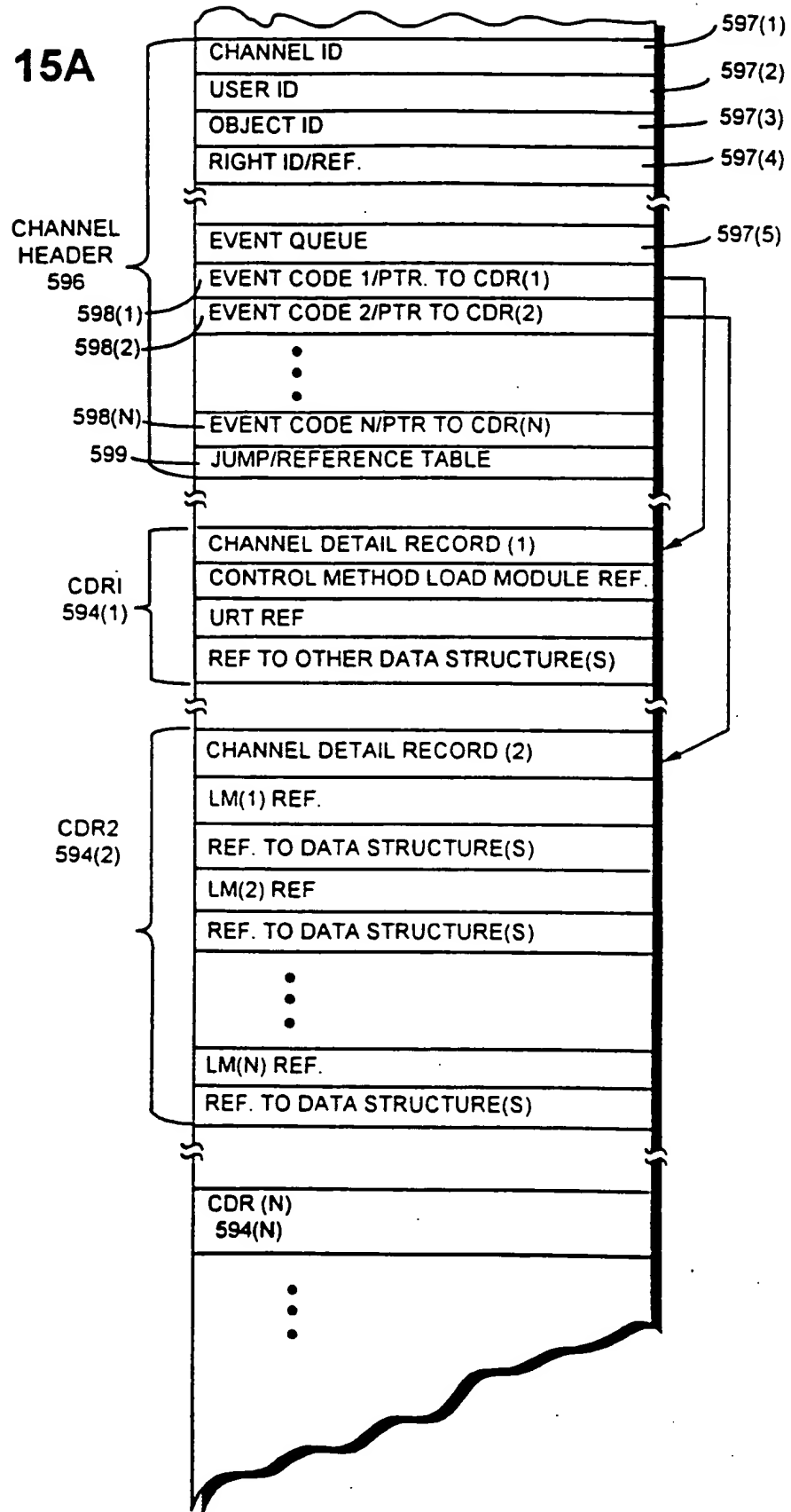


FIG. 15

FIG. 15A



004080-11622960

FIG. 15B

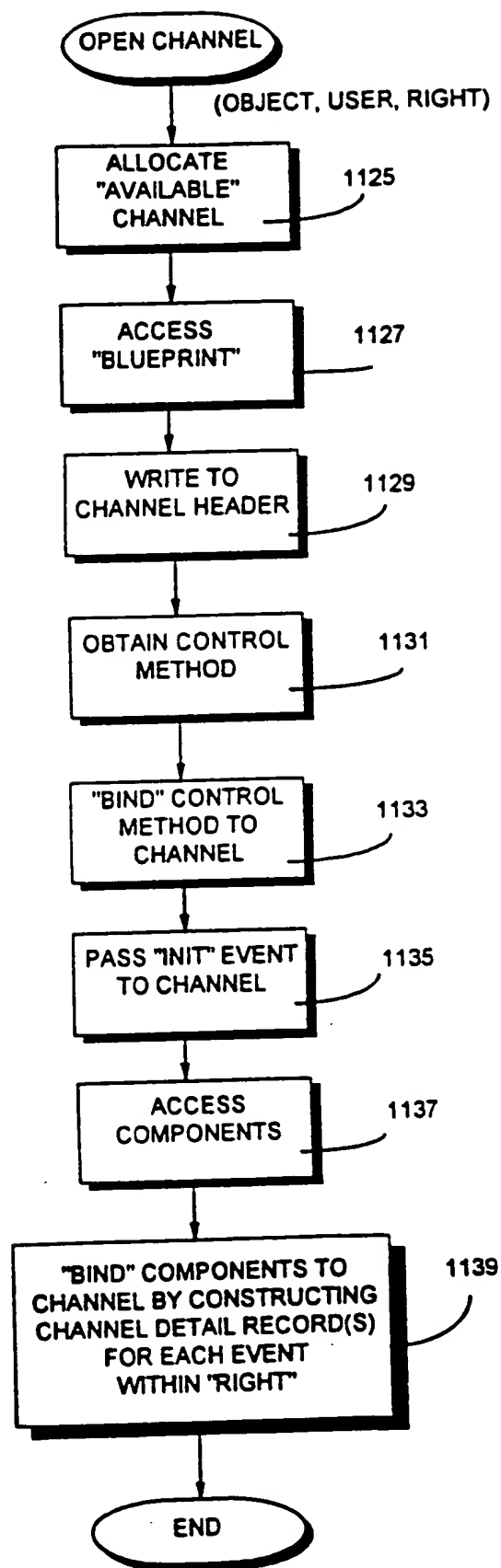
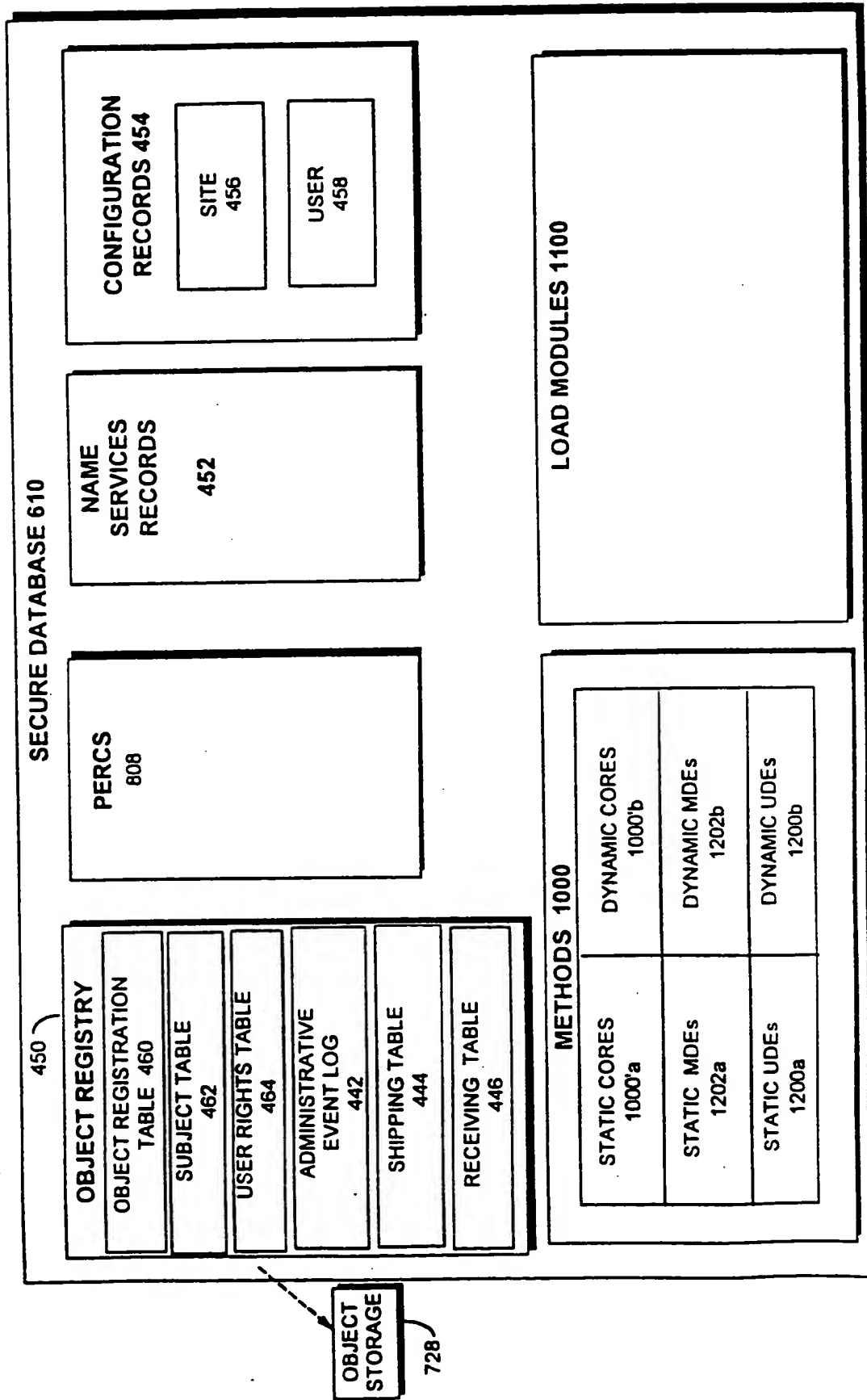
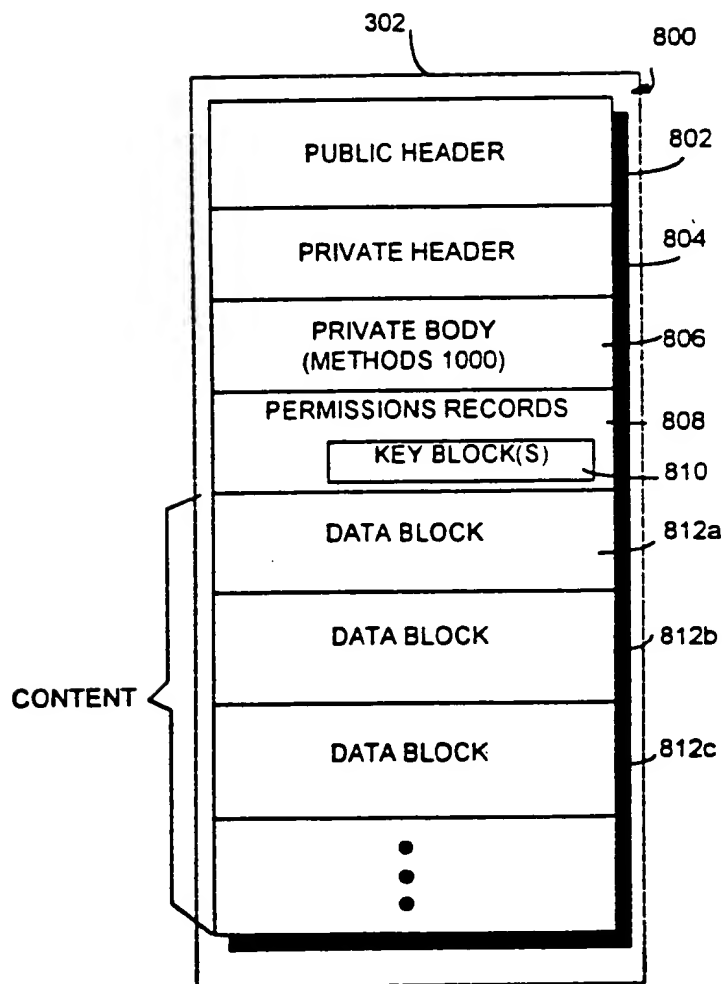


FIG. 16





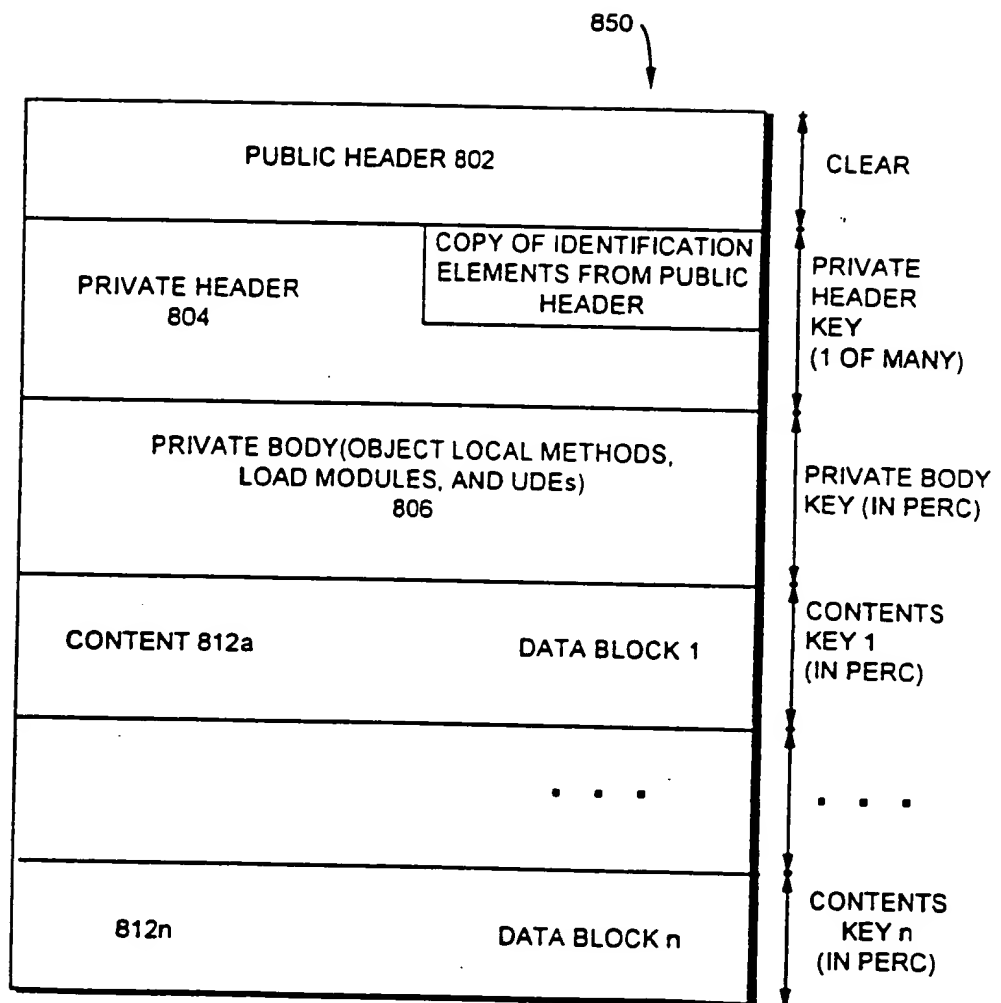
004080" 1162E960



LOGICAL OBJECT

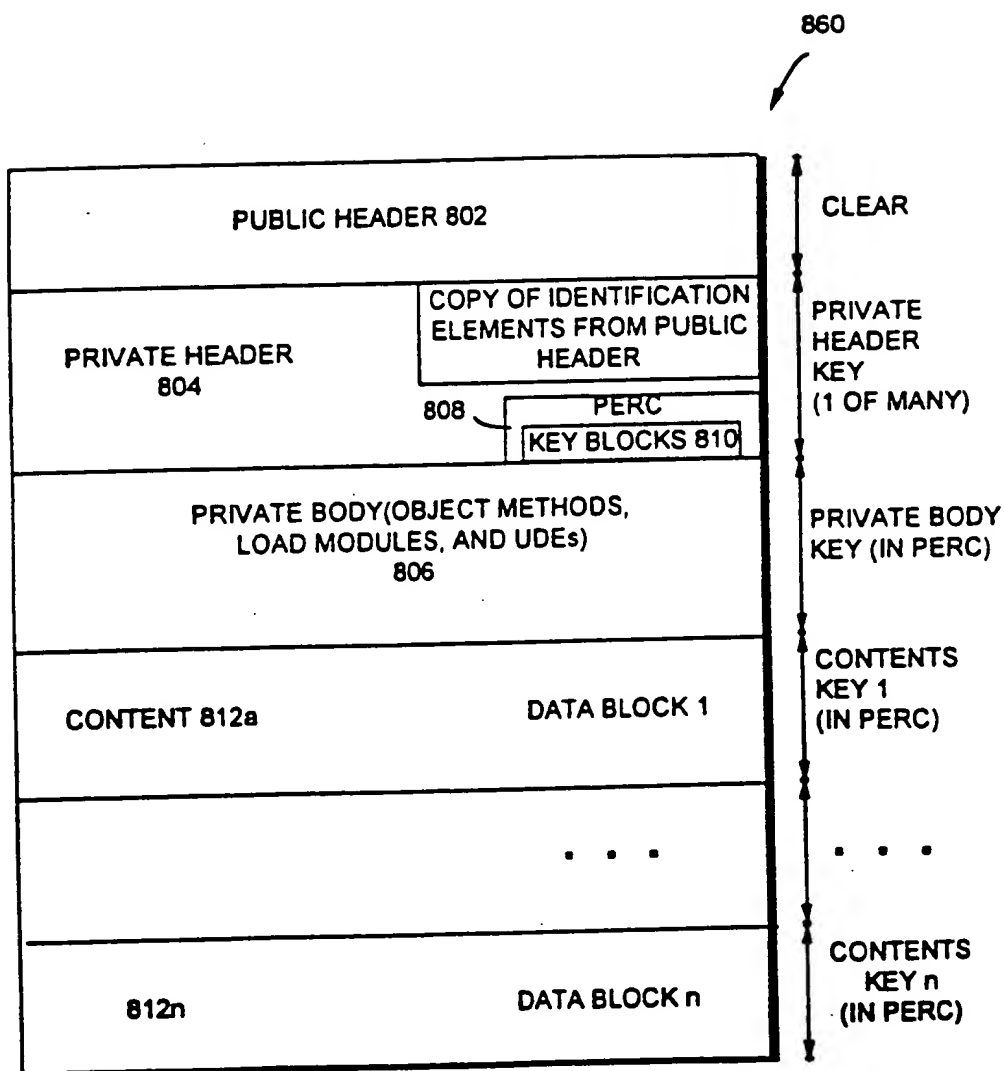
FIG. 17

004080-14622960



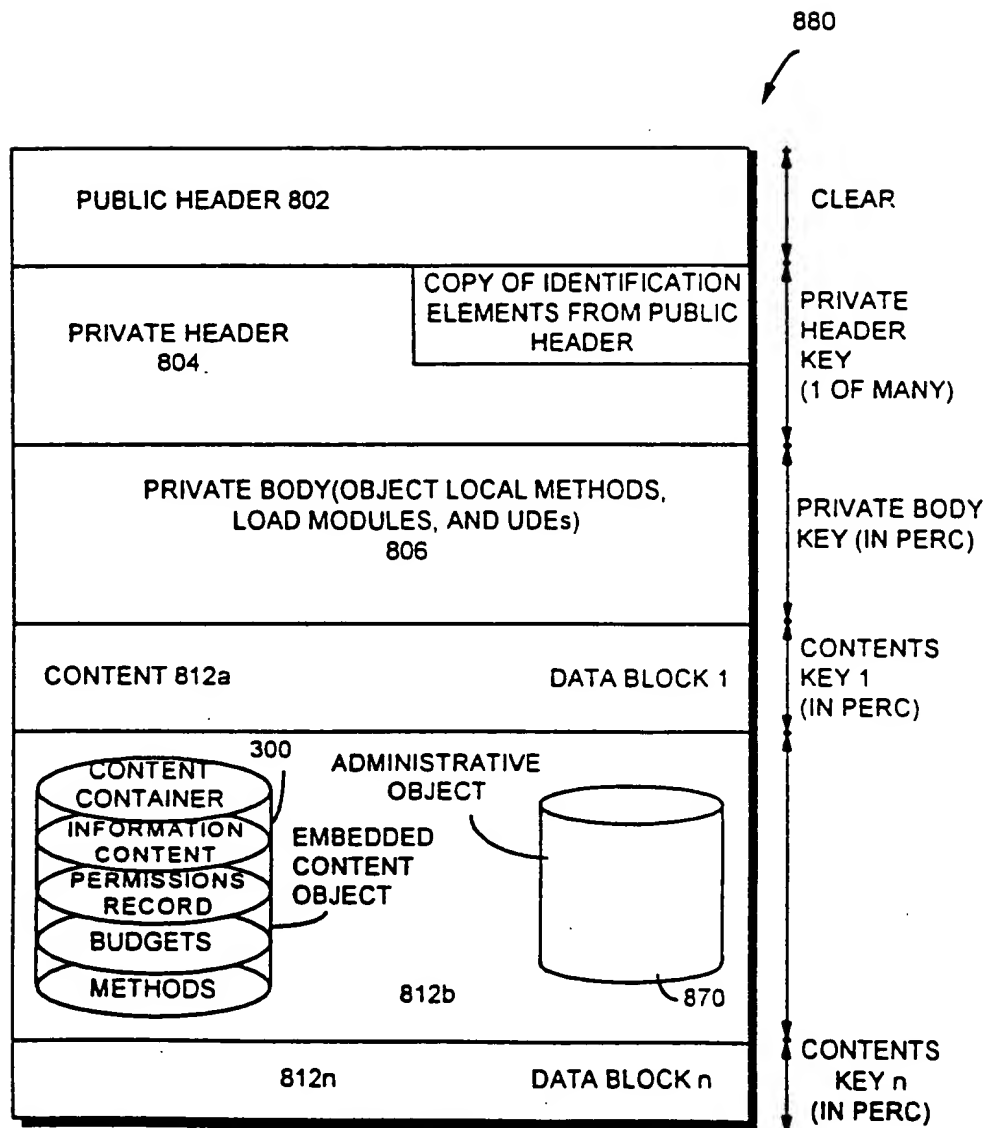
STATIONARY OBJECT

FIG. 18



TRAVELING OBJECT

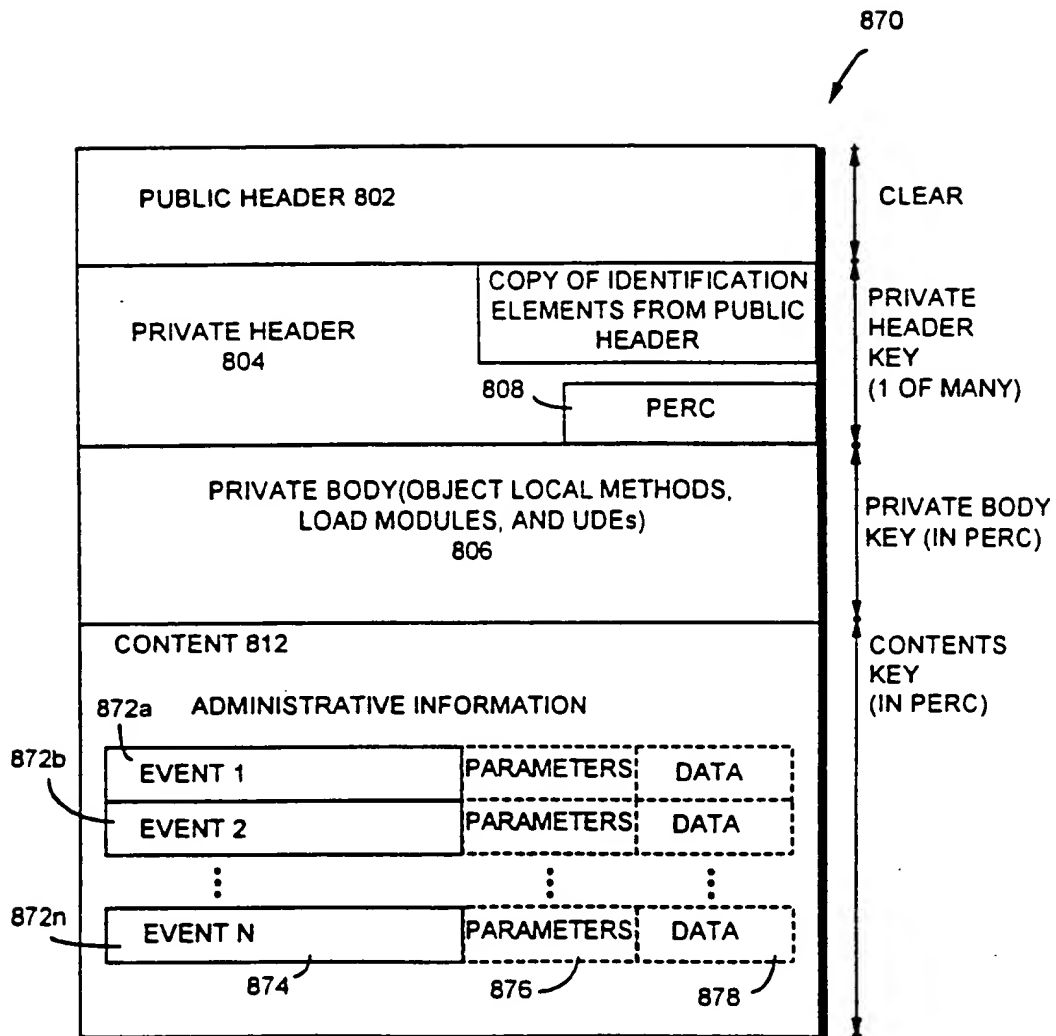
FIG. 19



CONTENT OBJECT

FIG. 20

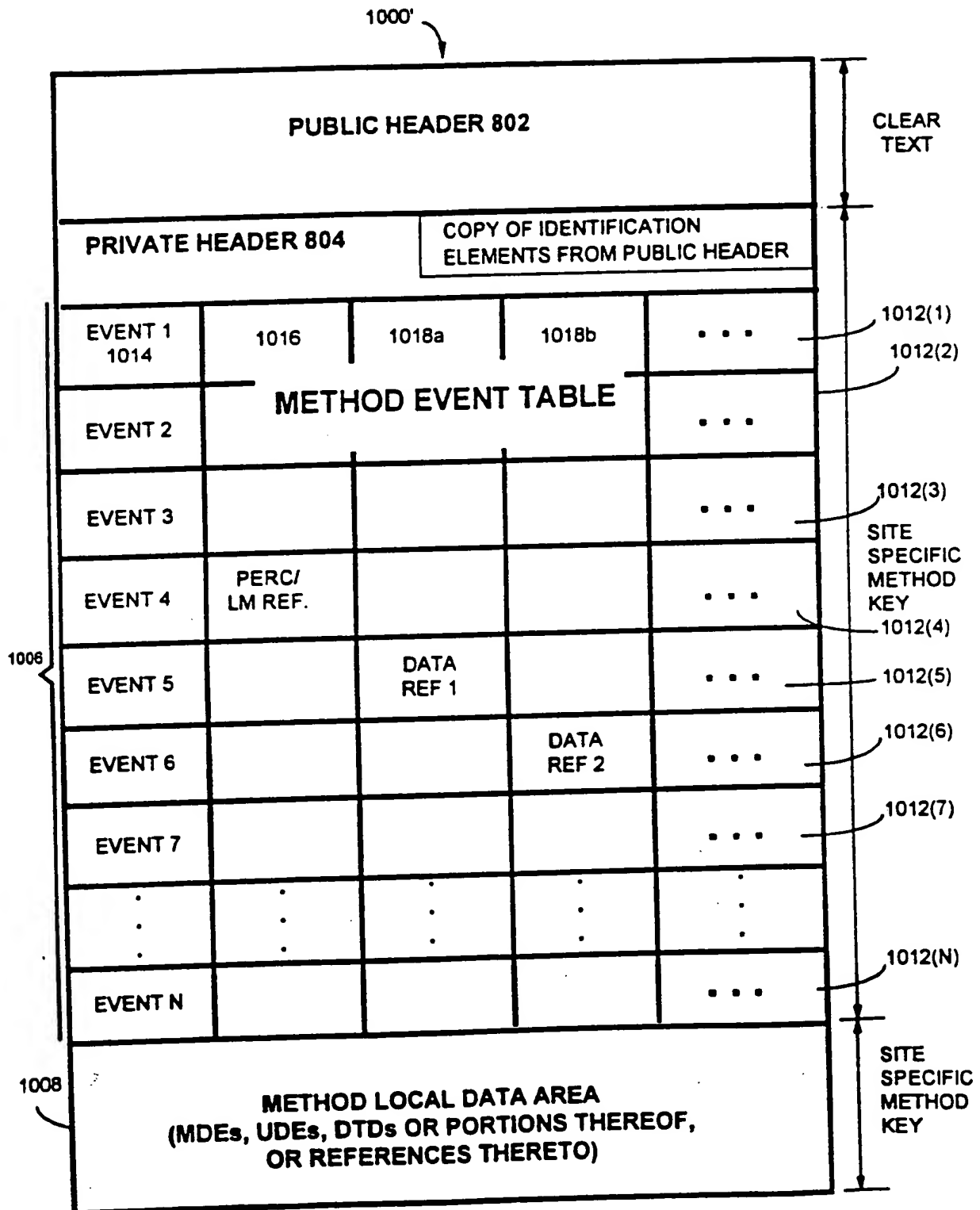
004030" 111522960



ADMINISTRATIVE OBJECT

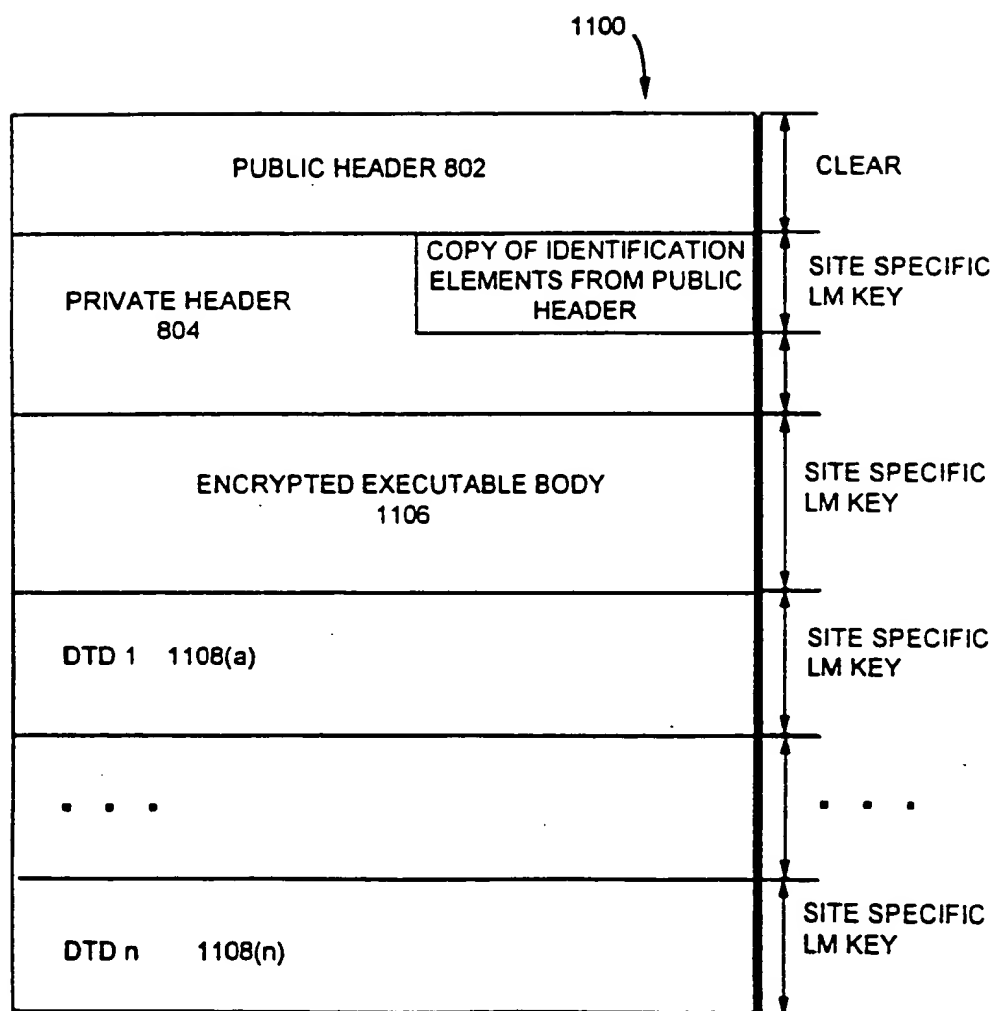
FIG. 21

# FIG. 22



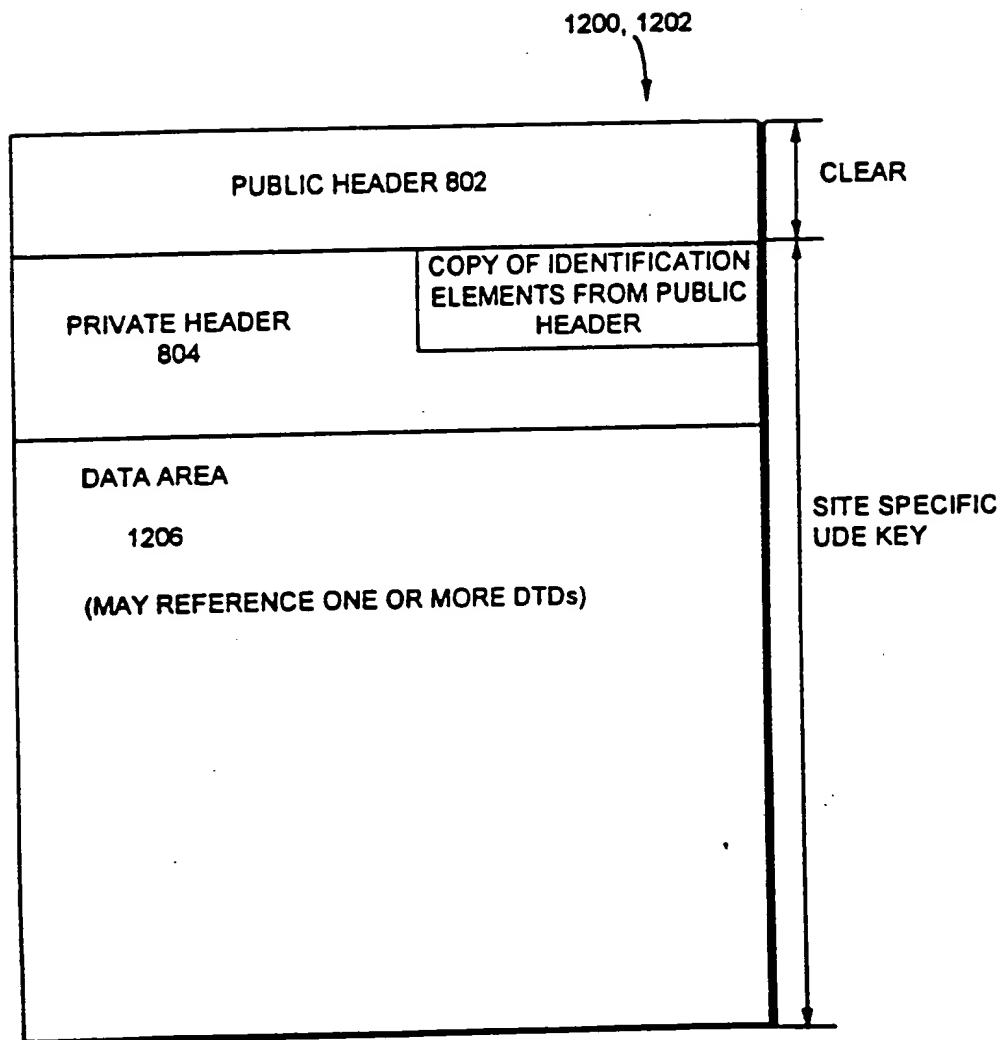
METHOD "CORE"

FIG. 23



LOAD MODULE

**FIG. 24**



**UDE (MDE)**



004030-1162E960

FIG. 25A

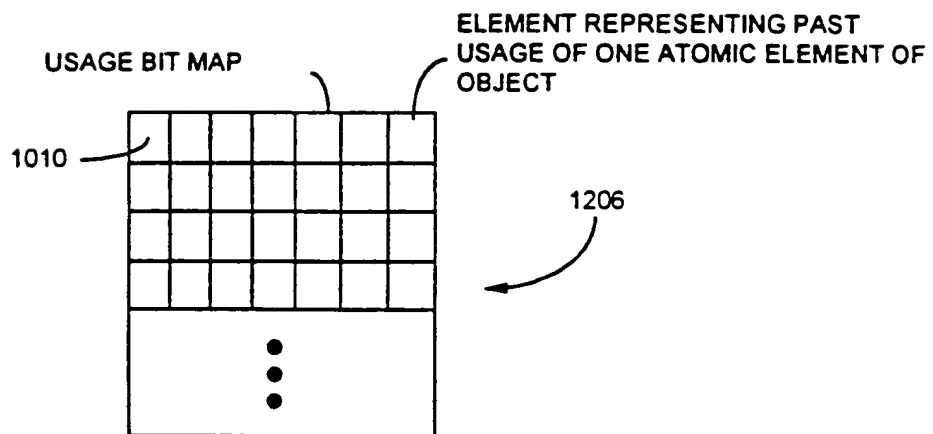


FIG. 25B

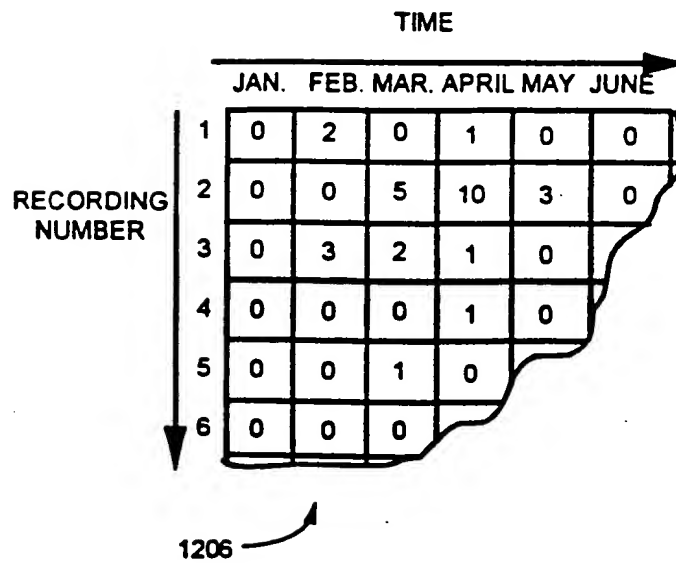
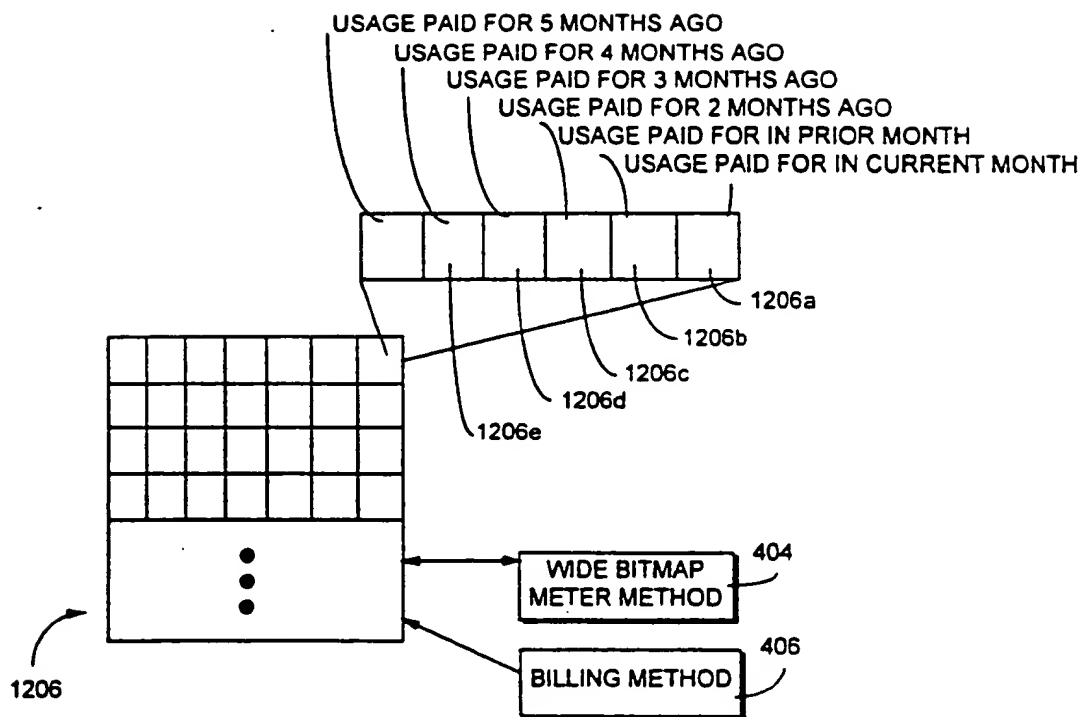
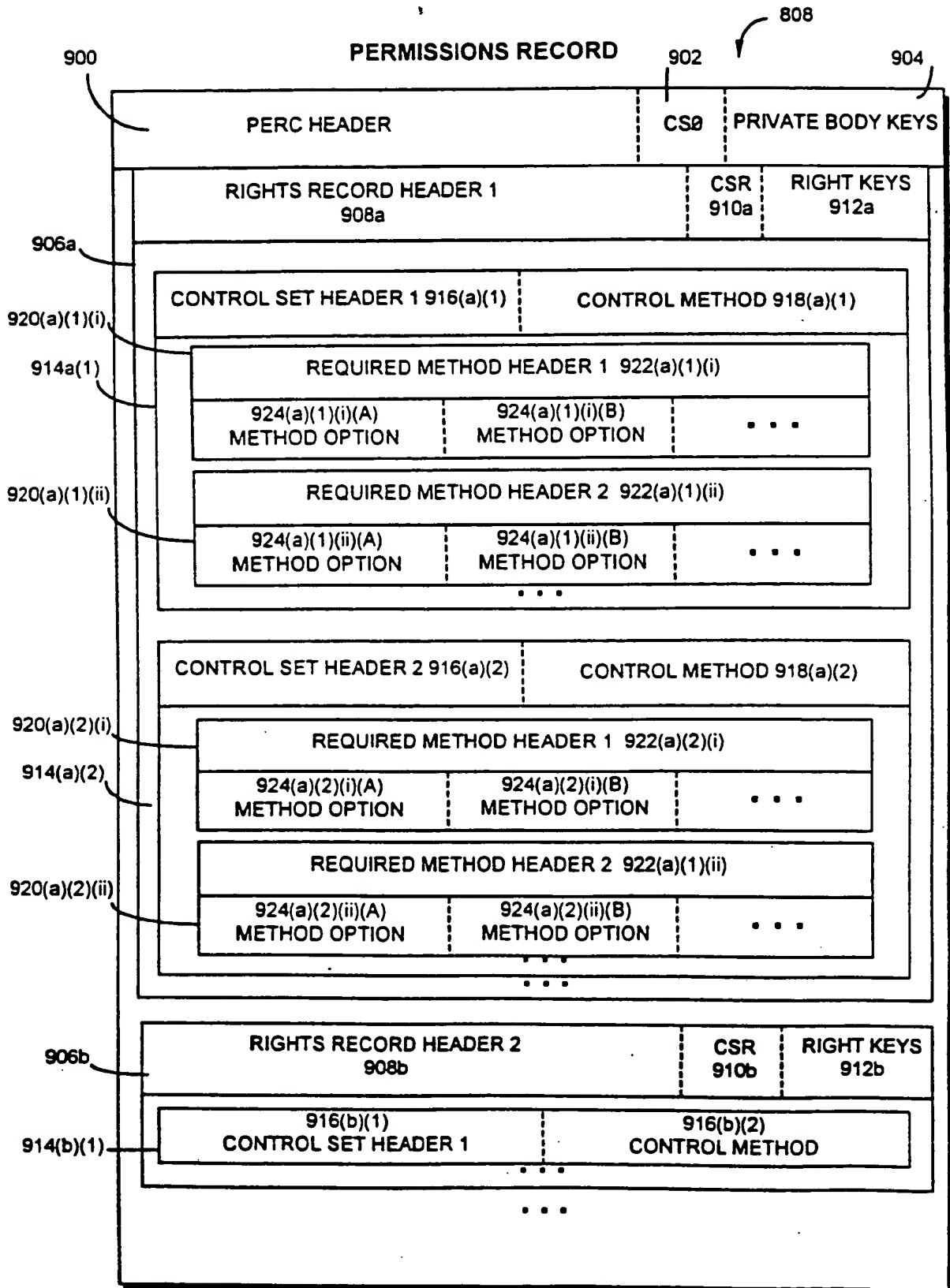


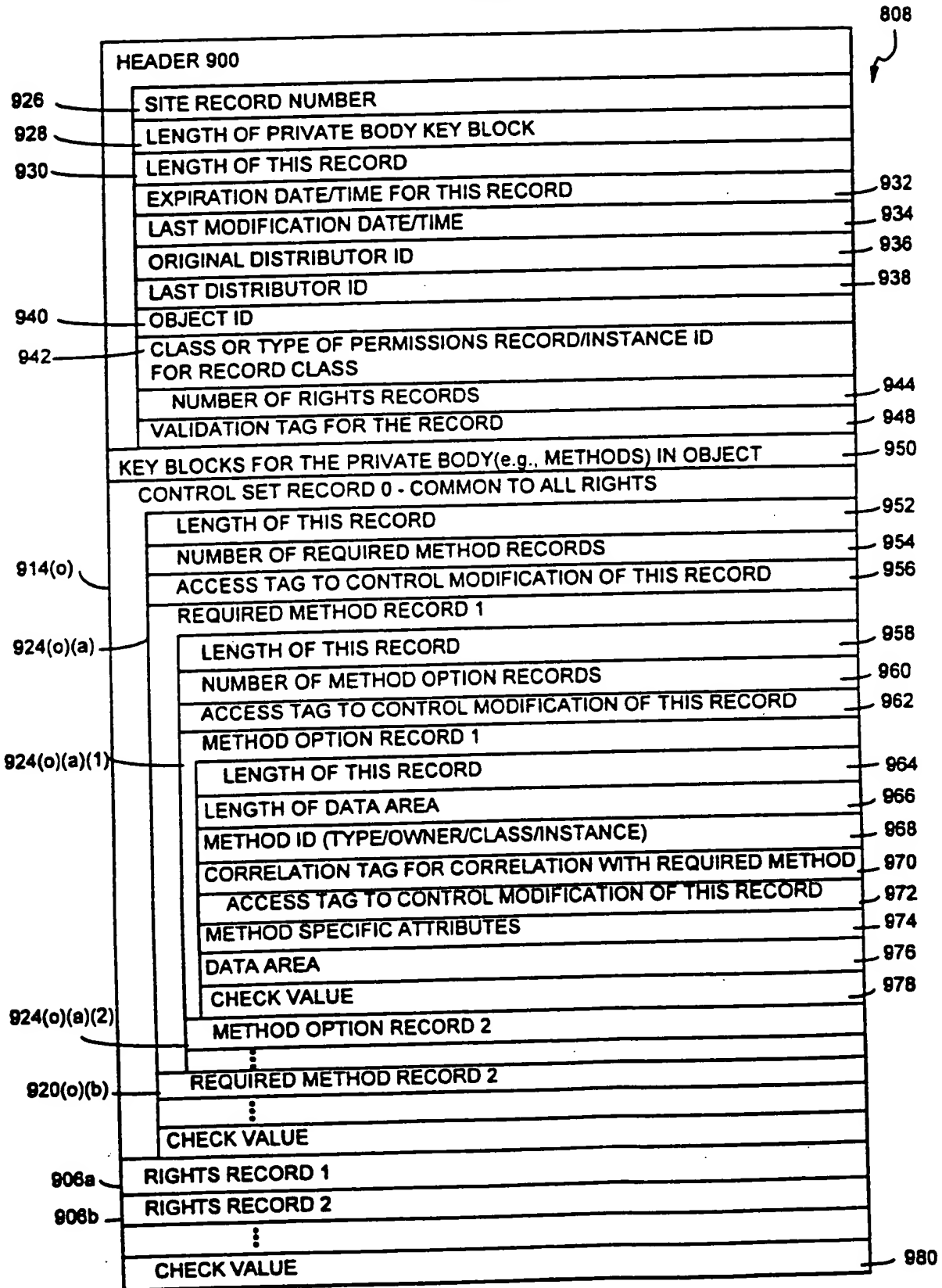
FIG. 25C



# FIG. 26

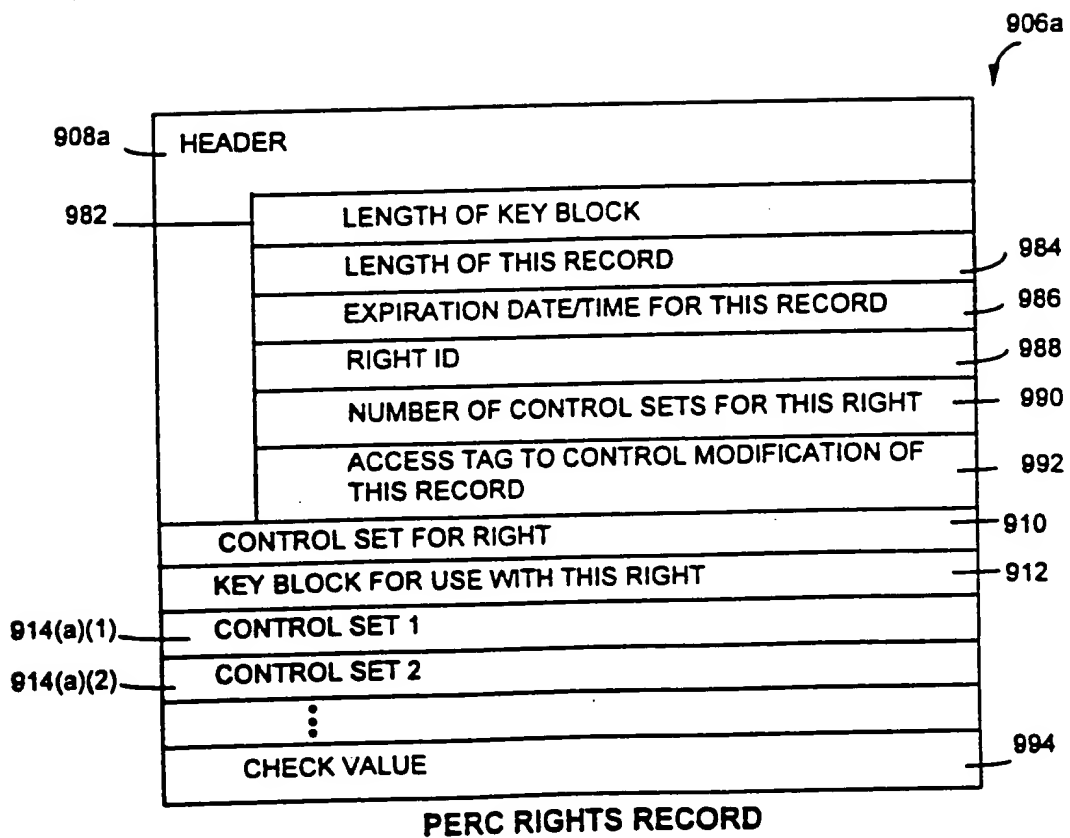


# FIG. 26A



PERC

FIG. 26B



**FIG. 27**  
SHIPPING TABLE

HEADER 444A	SITE RECORD NUMBER	444A(1)	444
	USER (GROUP) ID	444A(2)	
	REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD	444A(3)	
	REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD	444A(4)	
	REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD	444A(5)	
	REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD	444A(6)	
	VALIDATION TAG FROM NAME SERVICES RECORD	444A(7)	
	VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S)	444A(8)	
	CHECK VALUE	444A(9)	
SHIPPING RECORD 445(1)	SITE RECORD NUMBER	445(1)(A)	
	FIRST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(B)	
	LAST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(C)	
	ACTUAL DATE/TIME OF COMPLETED SHIPMENT	445(1)(D)	
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED	445(1)(E)	
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG	445(1)(F)	
	REF. TO NAME SERVICES RECORD NAMING RECIPIENT	445(1)(G)	
	PURPOSE OF SHIPMENT	445(1)(H)	
	STATUS OF SHIPMENT	445(1)(I)	
	REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD	445(1)(J)	
	REF. TO "NEXT" OUTGOING SHIPPING RECORD	445(1)(K)	
	VALIDATION TAG FROM HEADER	445(1)(L)	
	VALIDATION TAG TO ADMINISTRATIVE EVENT LOG	445(1)(M)	
	VALIDATION TAG TO NAME SERVICES RECORD	445(1)(N)	
	VALIDATION TAG FROM PREVIOUS RECORD	445(1)(O)	
	VALIDATION TAG TO NEXT RECORD	445(1)(P)	
	CHECK VALUE	445(1)(Q)	
	⋮		
	SHIPPING RECORD N	445(1)(R)	

004080" 11622950

**FIG. 28**  
RECEIVING TABLE

HEADER 446A	SITE RECORD NUMBER	446A(1)	446
	USER (GROUP) ID		446A(2)
	REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD		446A(3)
	REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD		446A(4)
	REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD		446A(5)
	REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD		446A(6)
	VALIDATION TAG FROM NAME SERVICES RECORD		446A(7)
	VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S)		446A(8)
	CHECK VALUE		446A(9)
RECEIVING RECORD 447(1)	SITE RECORD NUMBER		447(1)(A)
	FIRST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(B)
	LAST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(C)
	ACTUAL DATE/TIME OF COMPLETED RECEPTION		447(1)(D)
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED		447(1)(E)
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG		447(1)(F)
	REF. TO NAME SERVICES RECORD NAMING SENDER		447(1)(G)
	PURPOSE OF RECEPTION		447(1)(H)
	STATUS OF RECEPTION		447(1)(I)
	REF. TO "PREVIOUS" INCOMING RECEIVING RECORD		447(1)(J)
	REF. TO "NEXT" INCOMING RECEIVING RECORD		447(1)(K)
	VALIDATION TAGS		447(1)(L)
	CHECK VALUE		447(1)(M)
	⋮		
	RECEIVING RECORD N		447(2)

**FIG. 29**  
ADMINISTRATIVE EVENT LOG

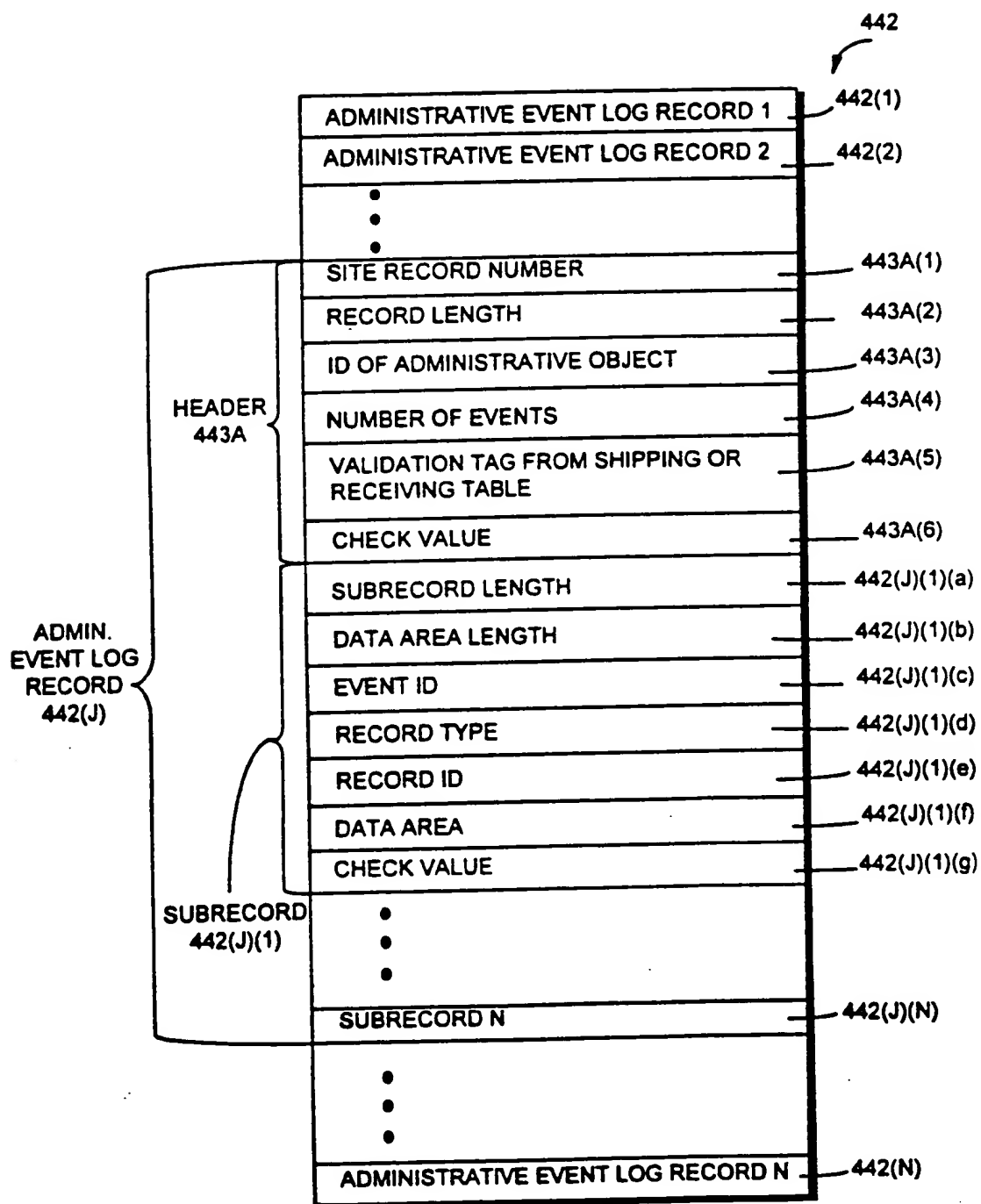
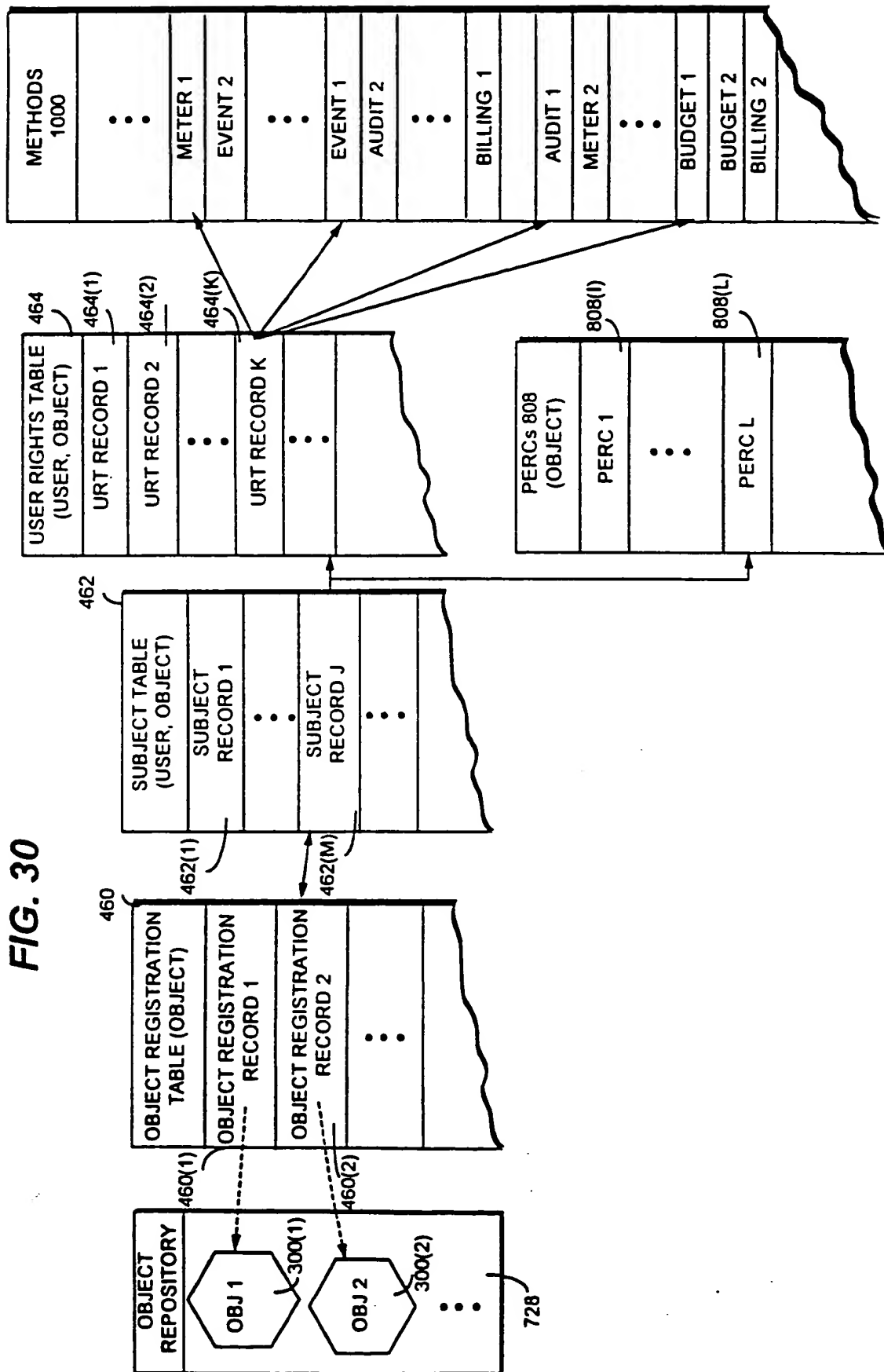
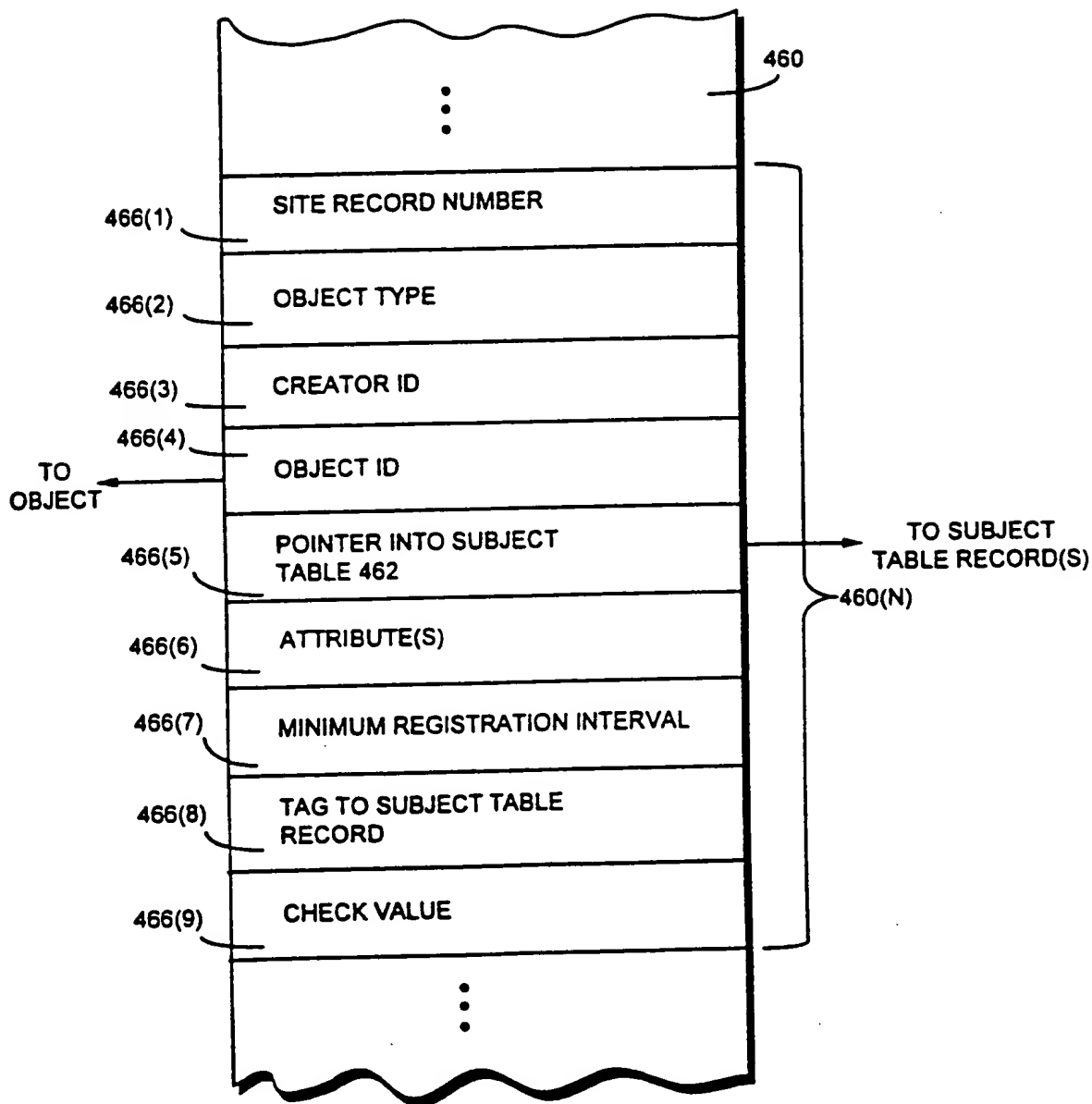




FIG. 30





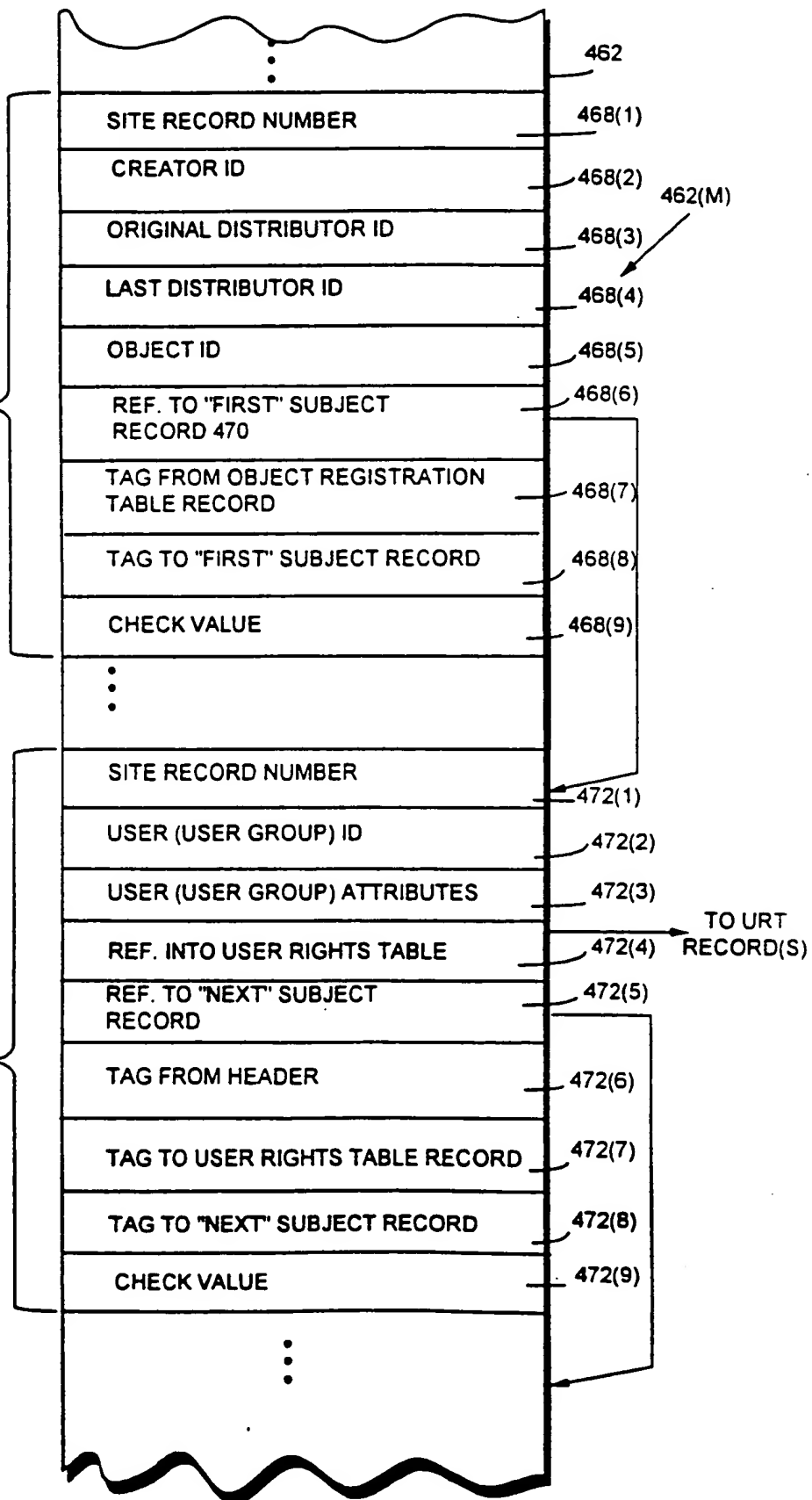
**FIG. 31**  
OBJECT REGISTRATION TABLE

**FIG. 32**

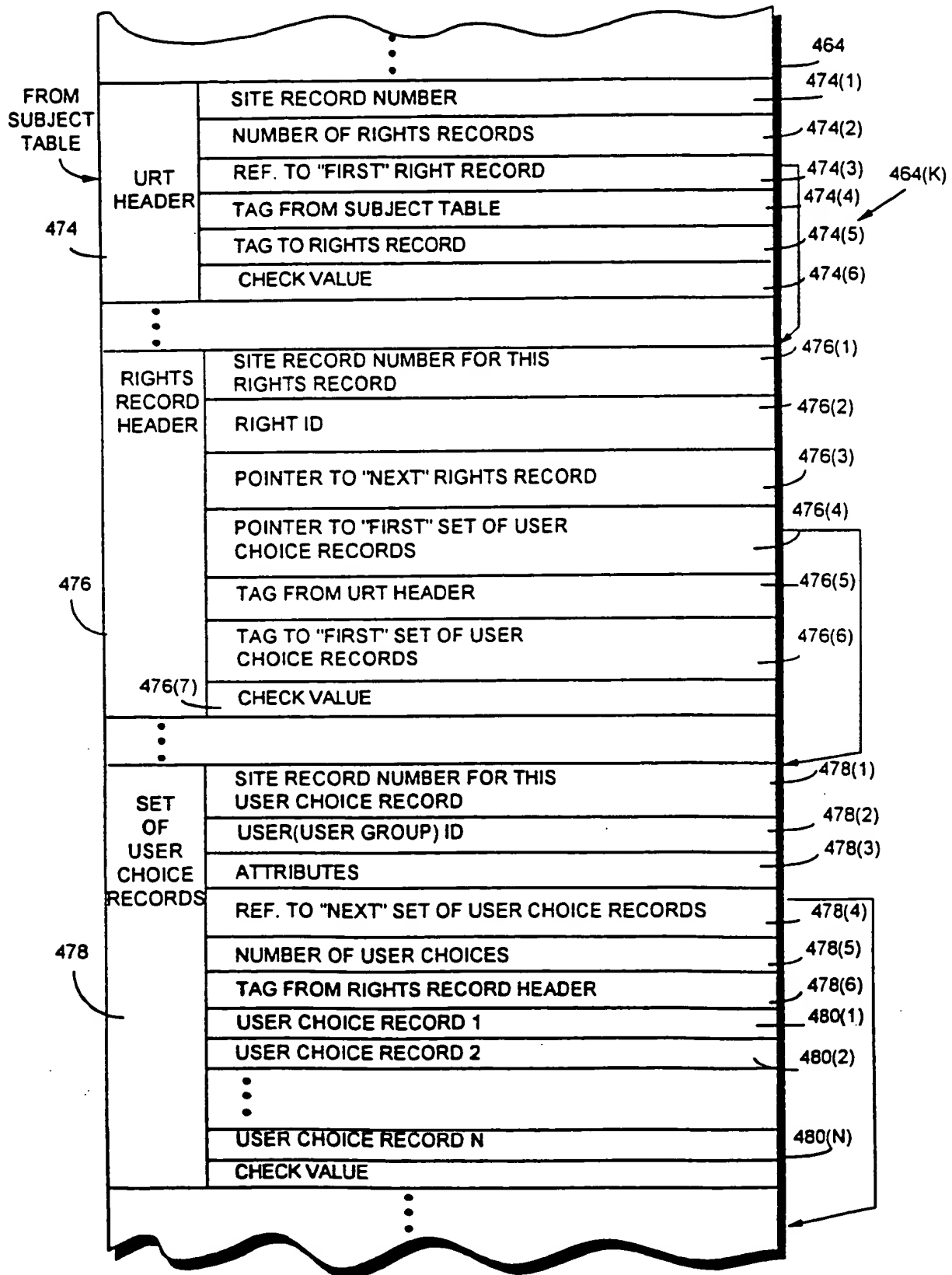
SUBJECT  
TABLE

"HEADER"  
468

SUBJECT  
RECORD  
470(1)



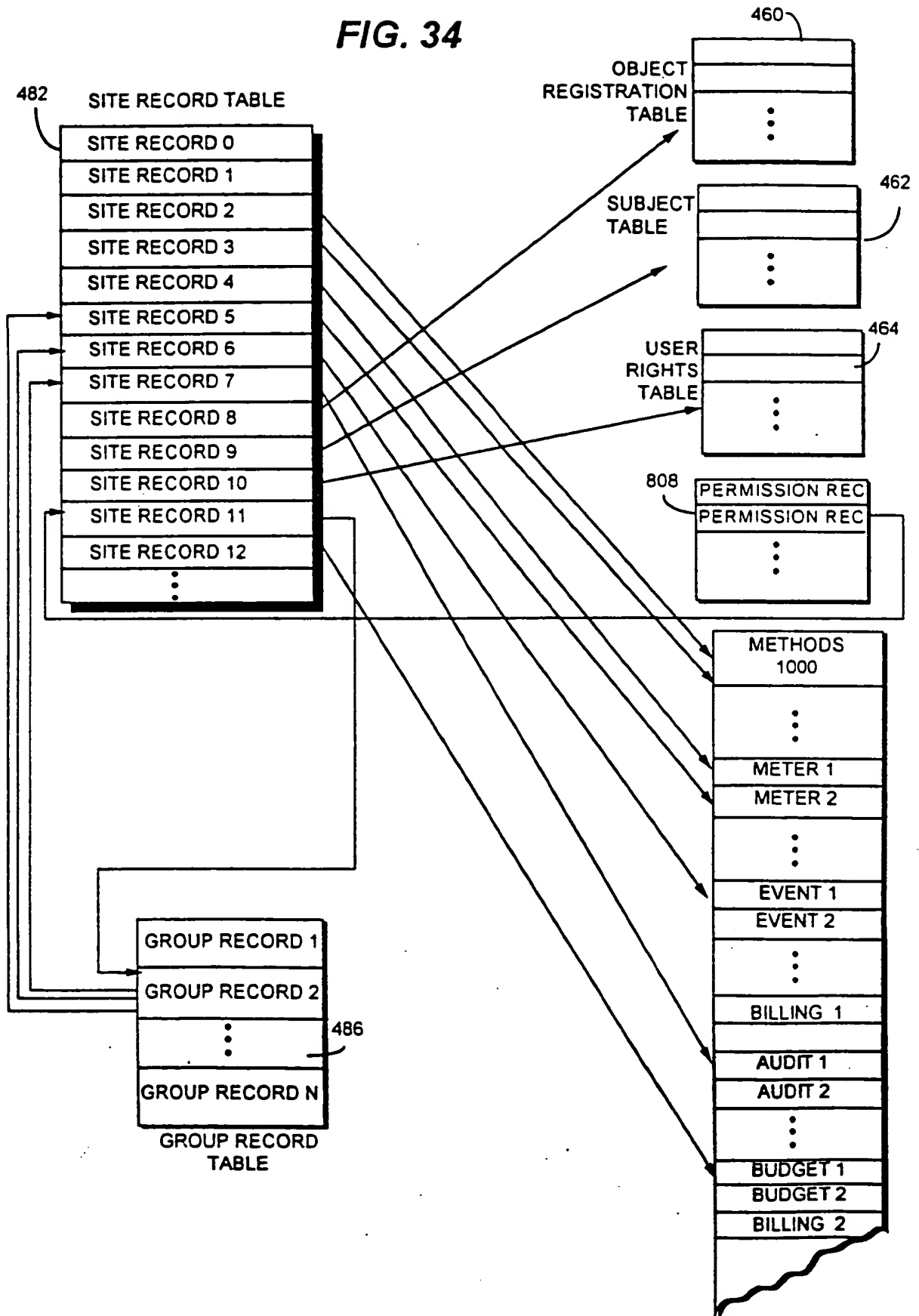
**FIG. 33** USER RIGHTS TABLE



004080-11622960

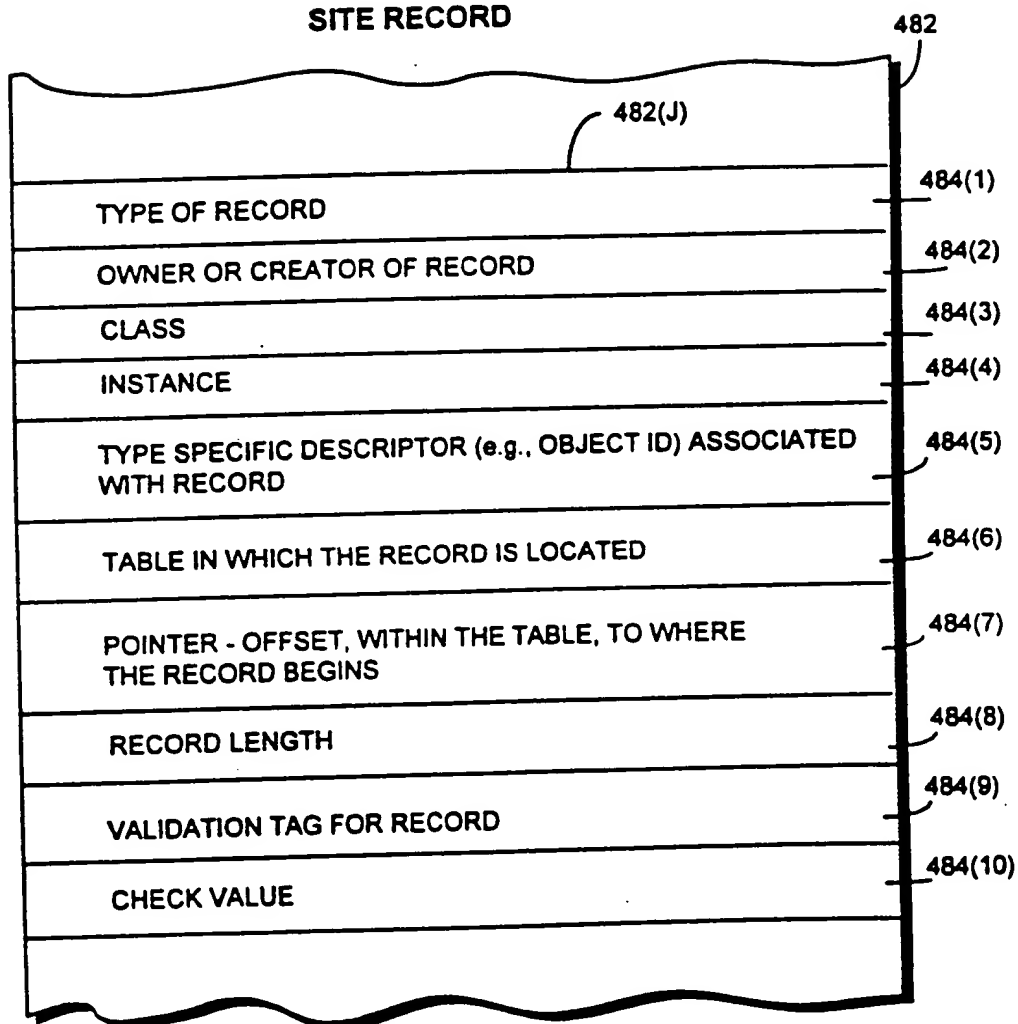
004080" 1162E960

FIG. 34



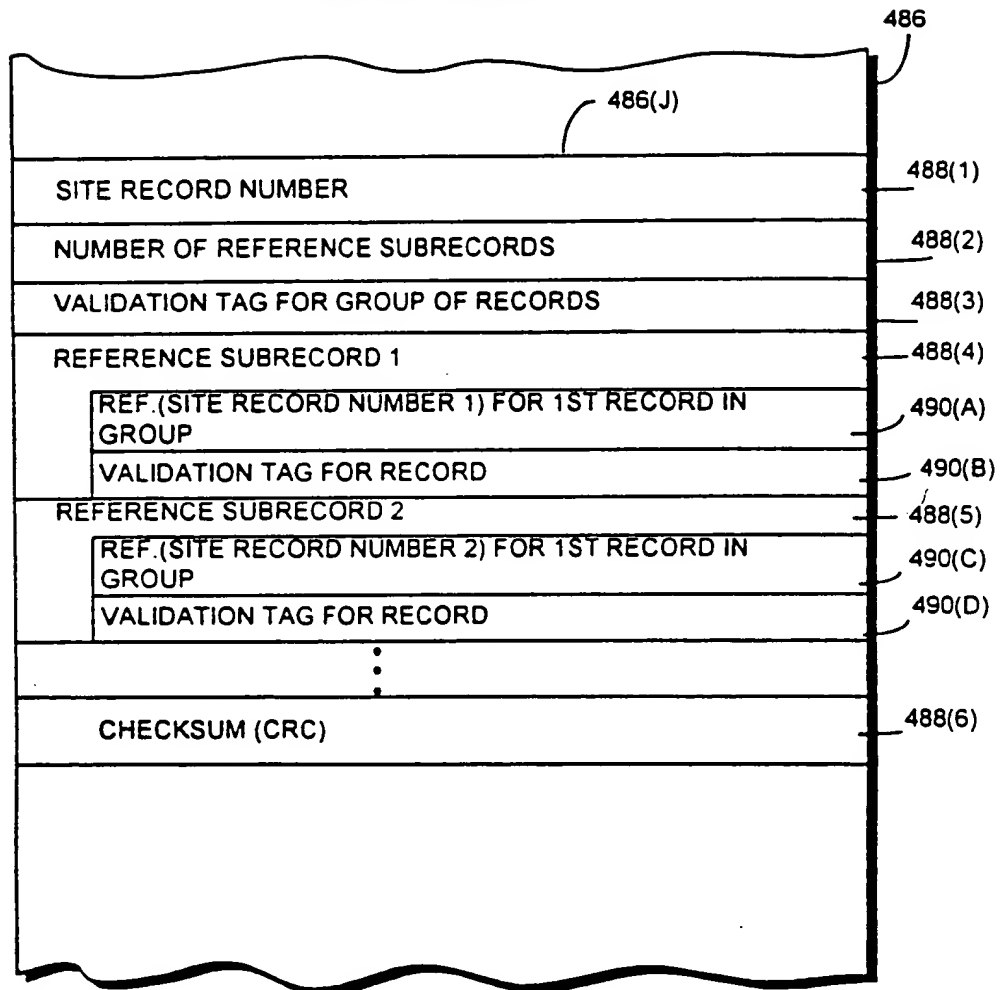
**FIG. 34A**

**SITE RECORD**



**FIG. 34B**

**GROUP RECORD**



004080" 11622960

FIG. 35

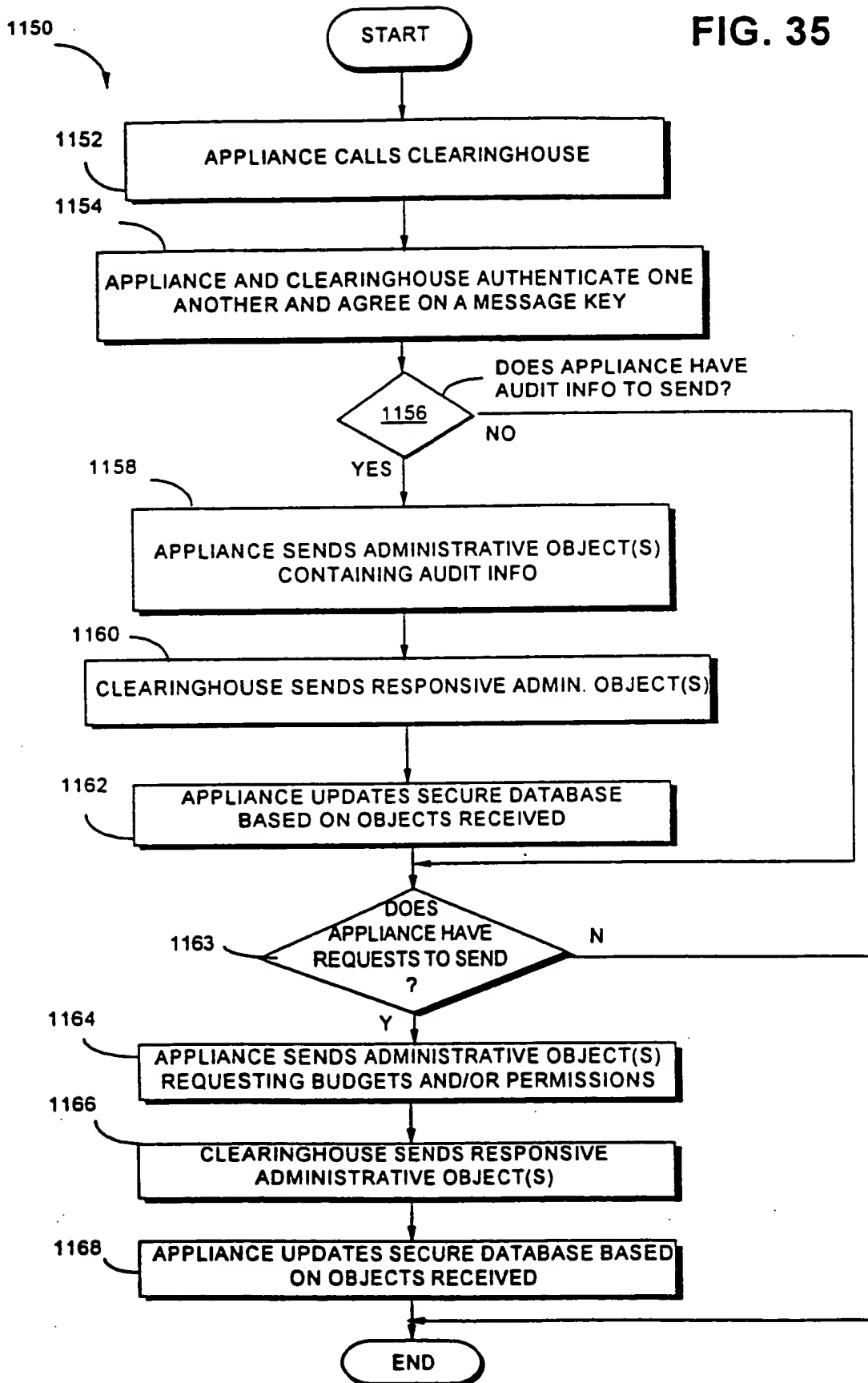




FIG. 36

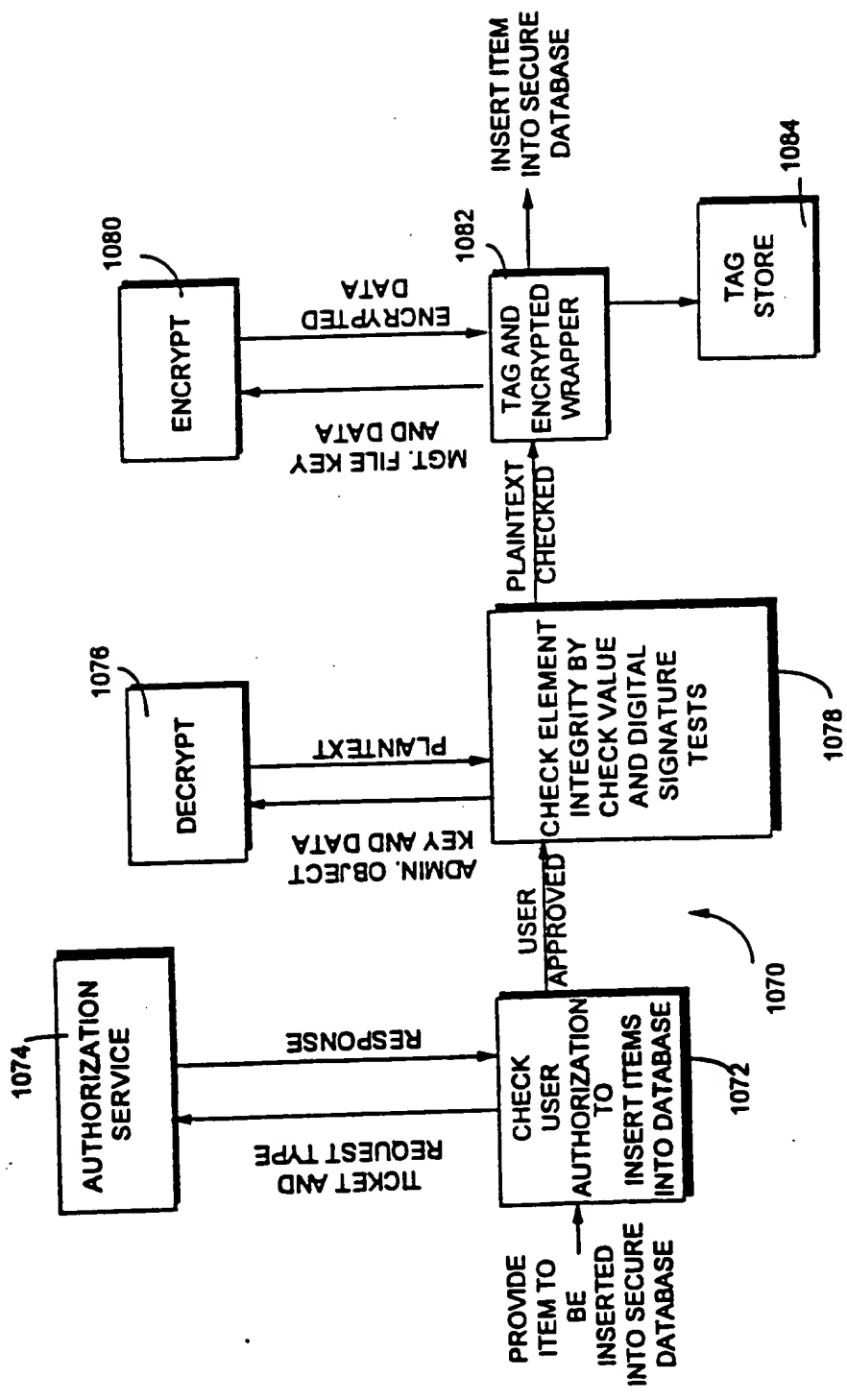


FIG. 37

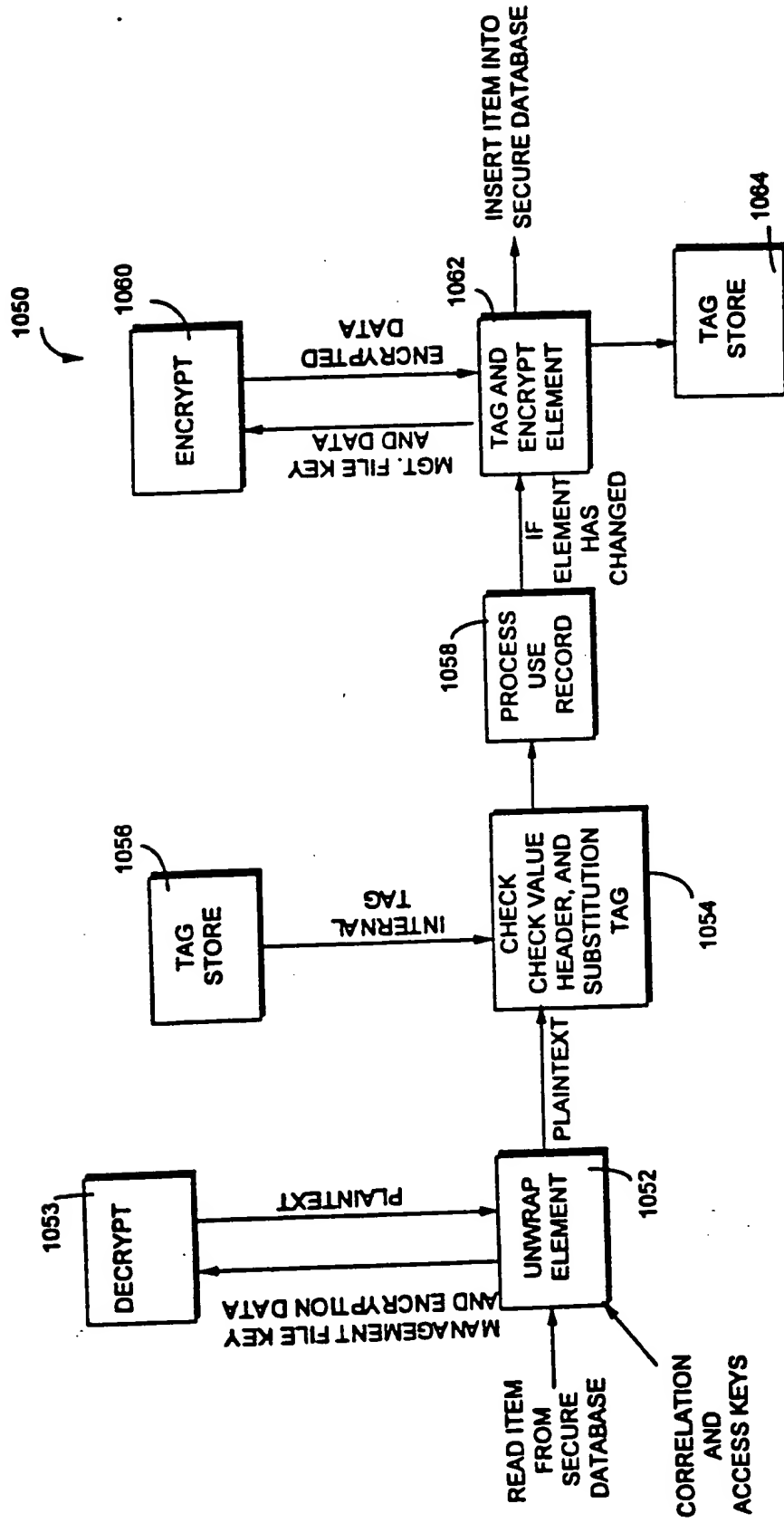
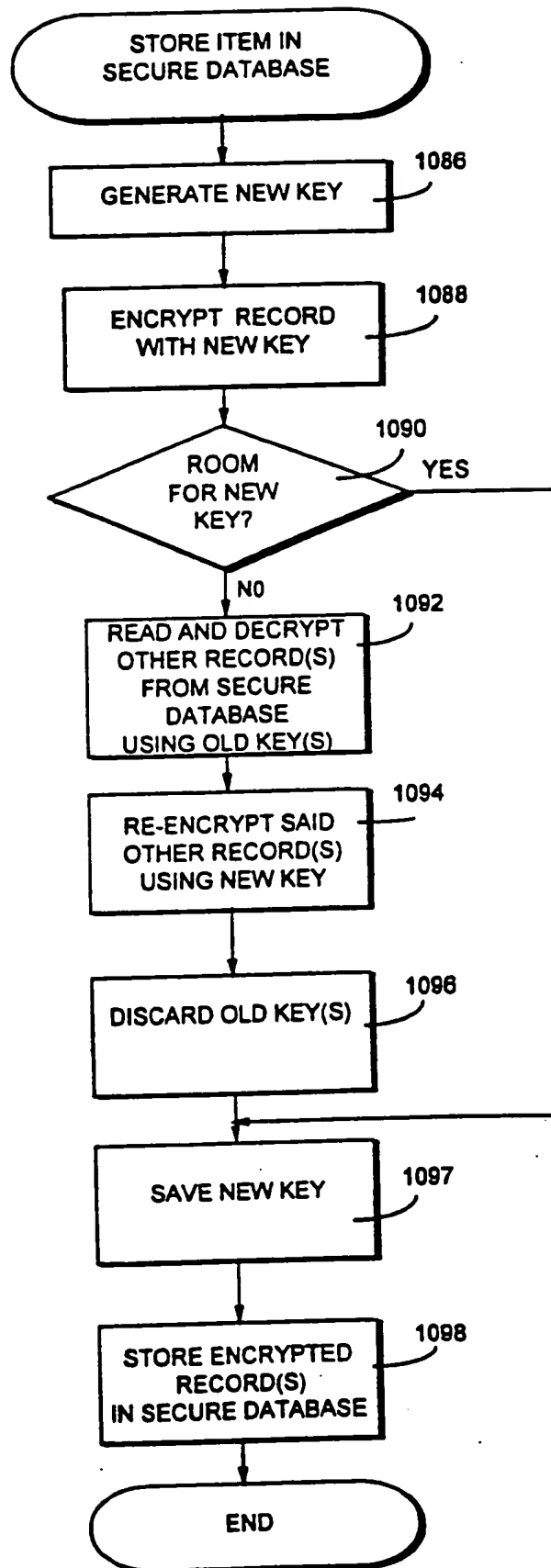
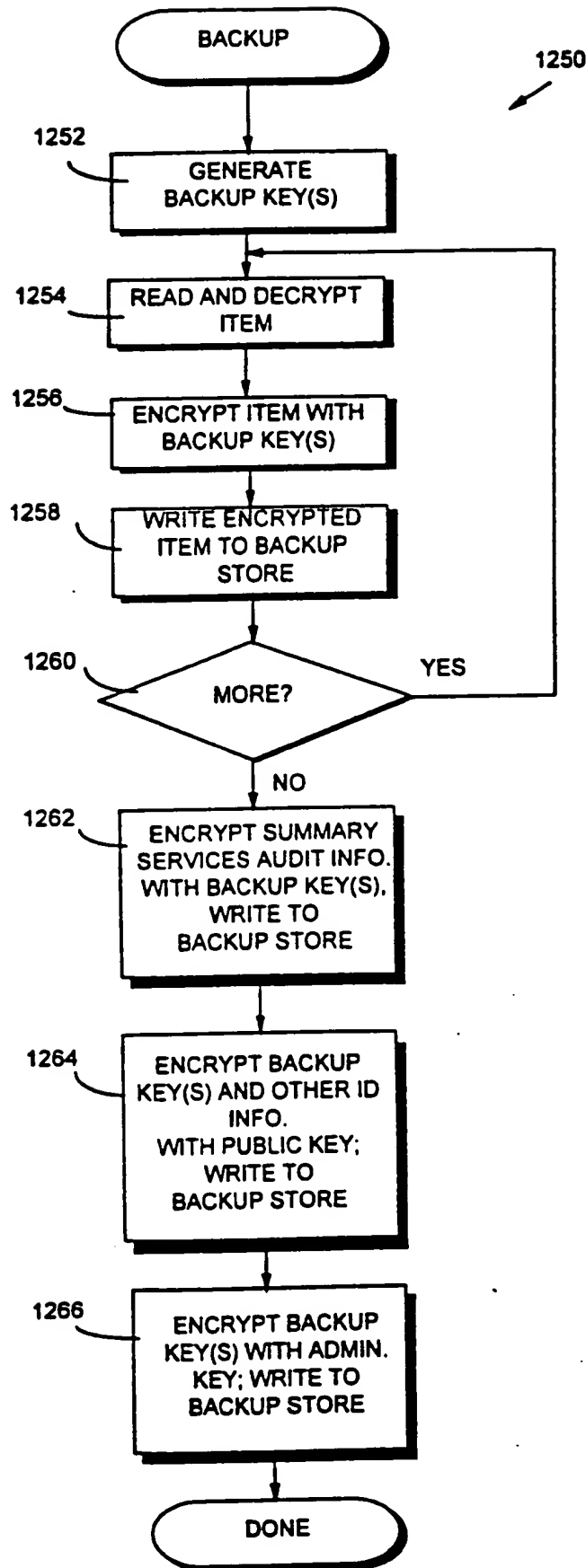


FIG. 38

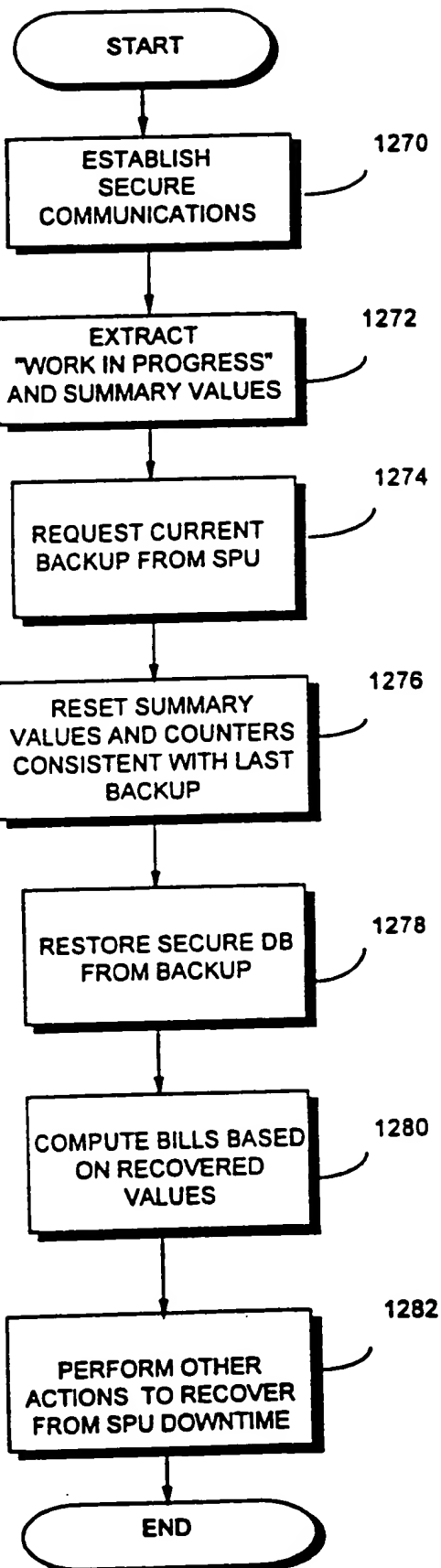


**FIG. 39**  
BACKUP



**FIG. 40**  
RECOVER SECURE DATABASE

1268



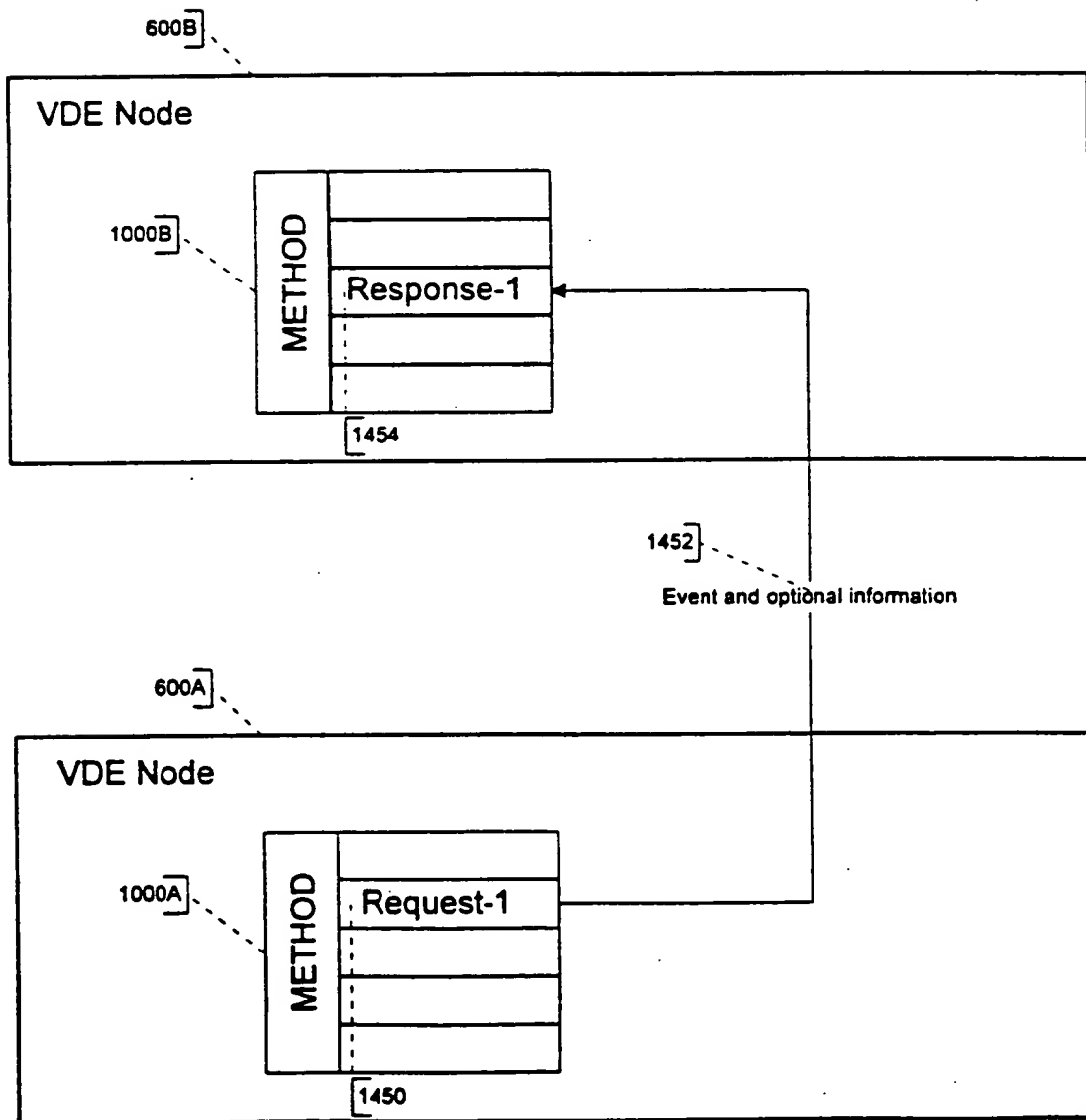


Figure 41a

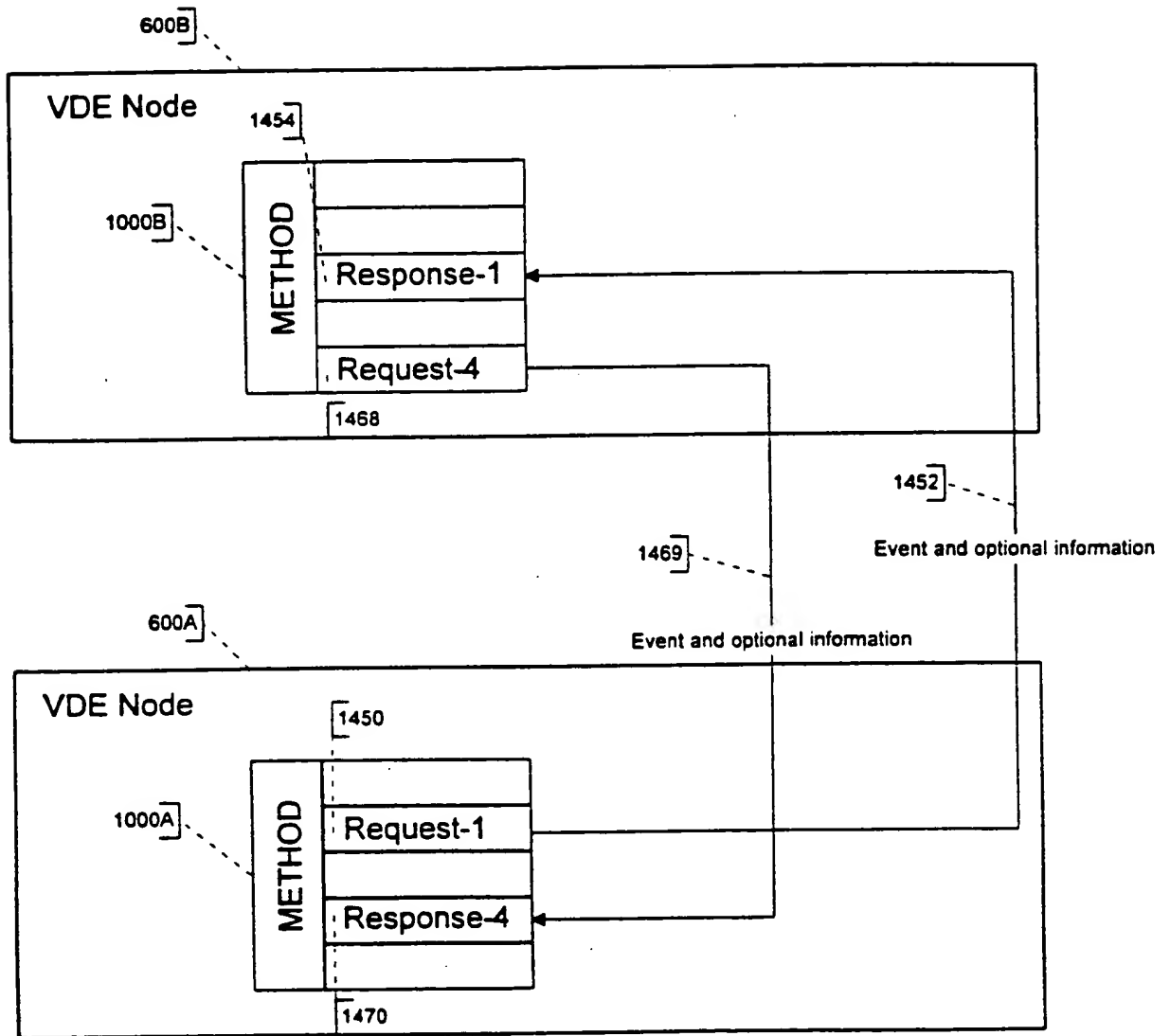


Figure 41b

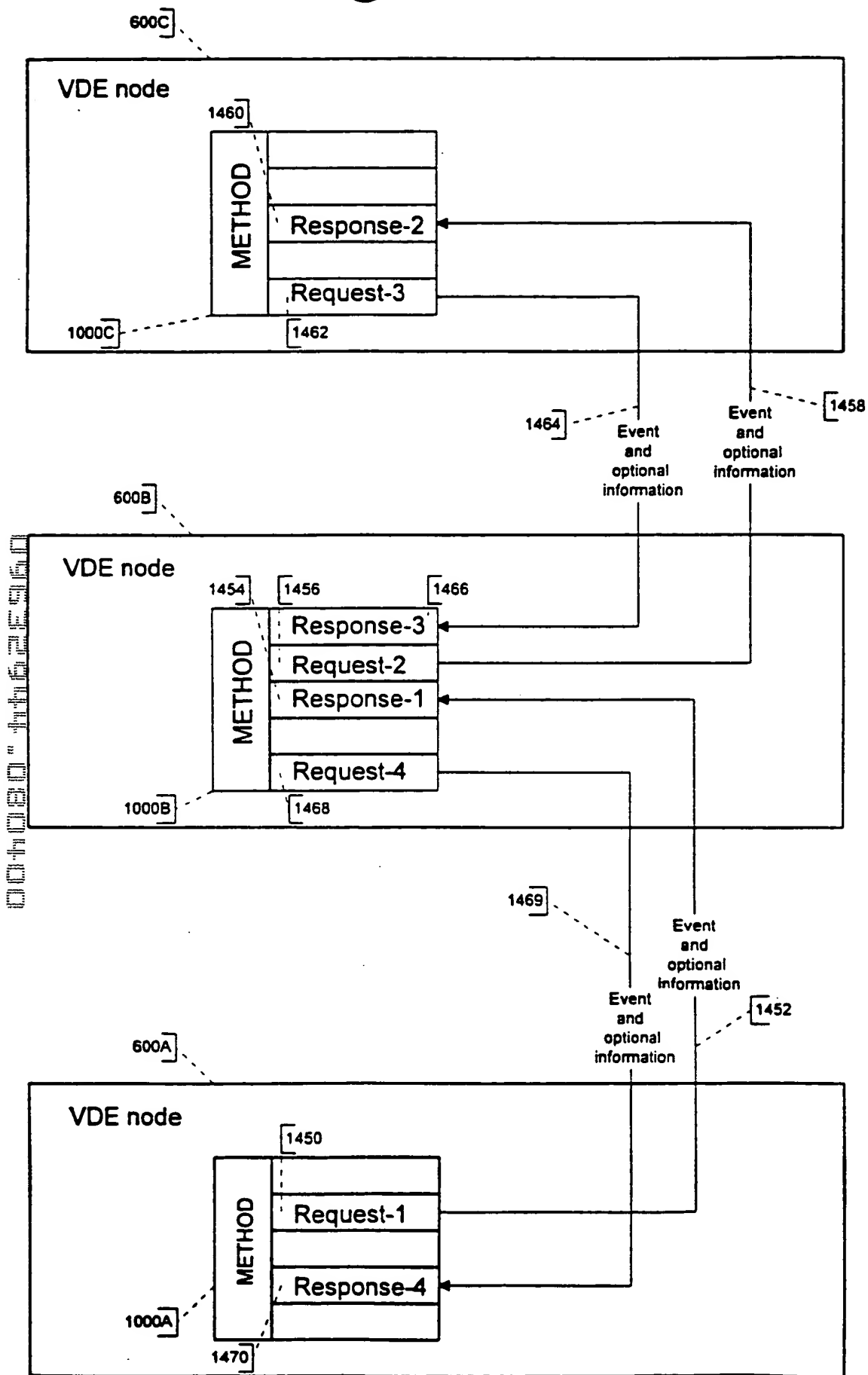


Figure 41c



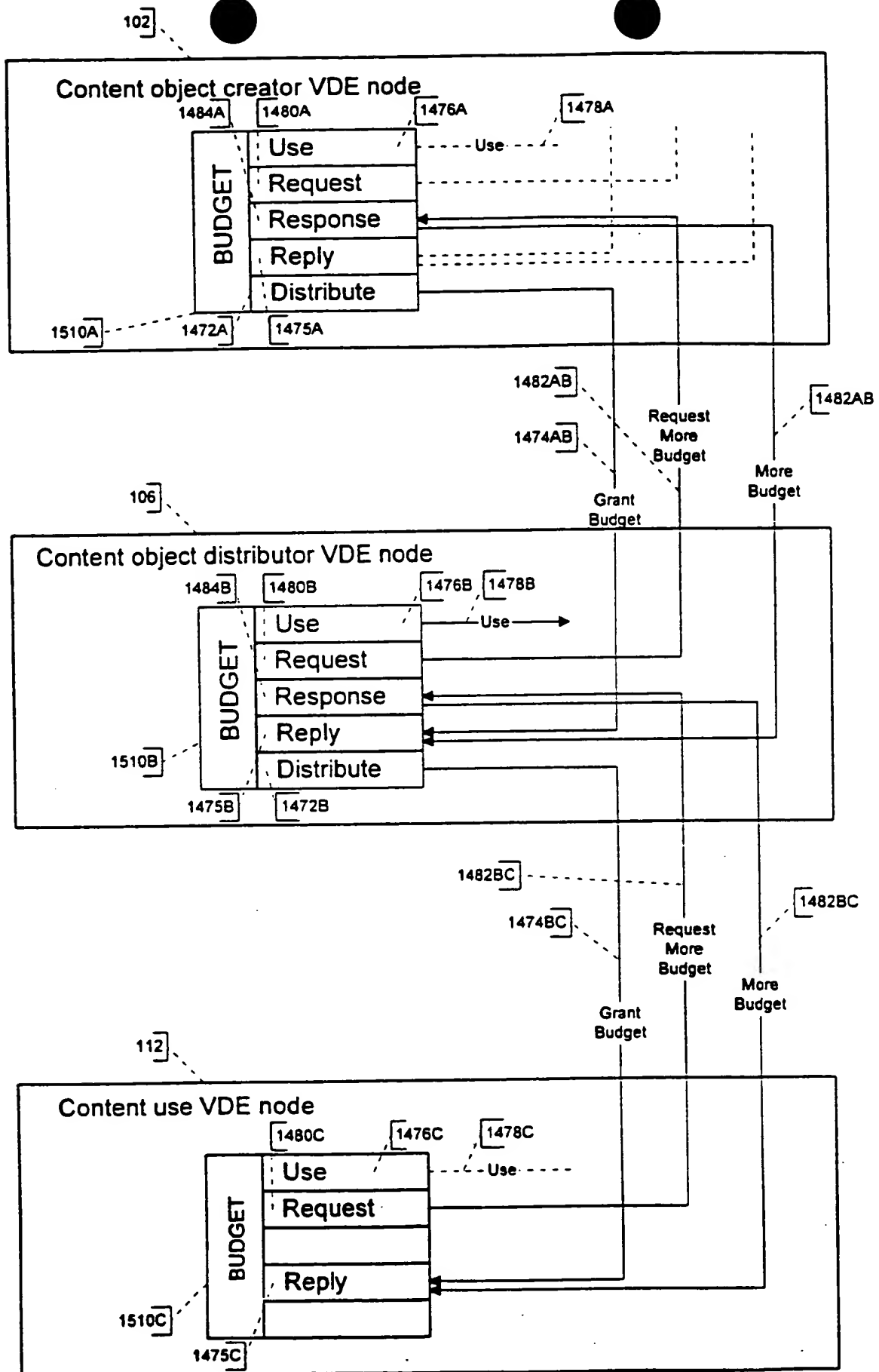
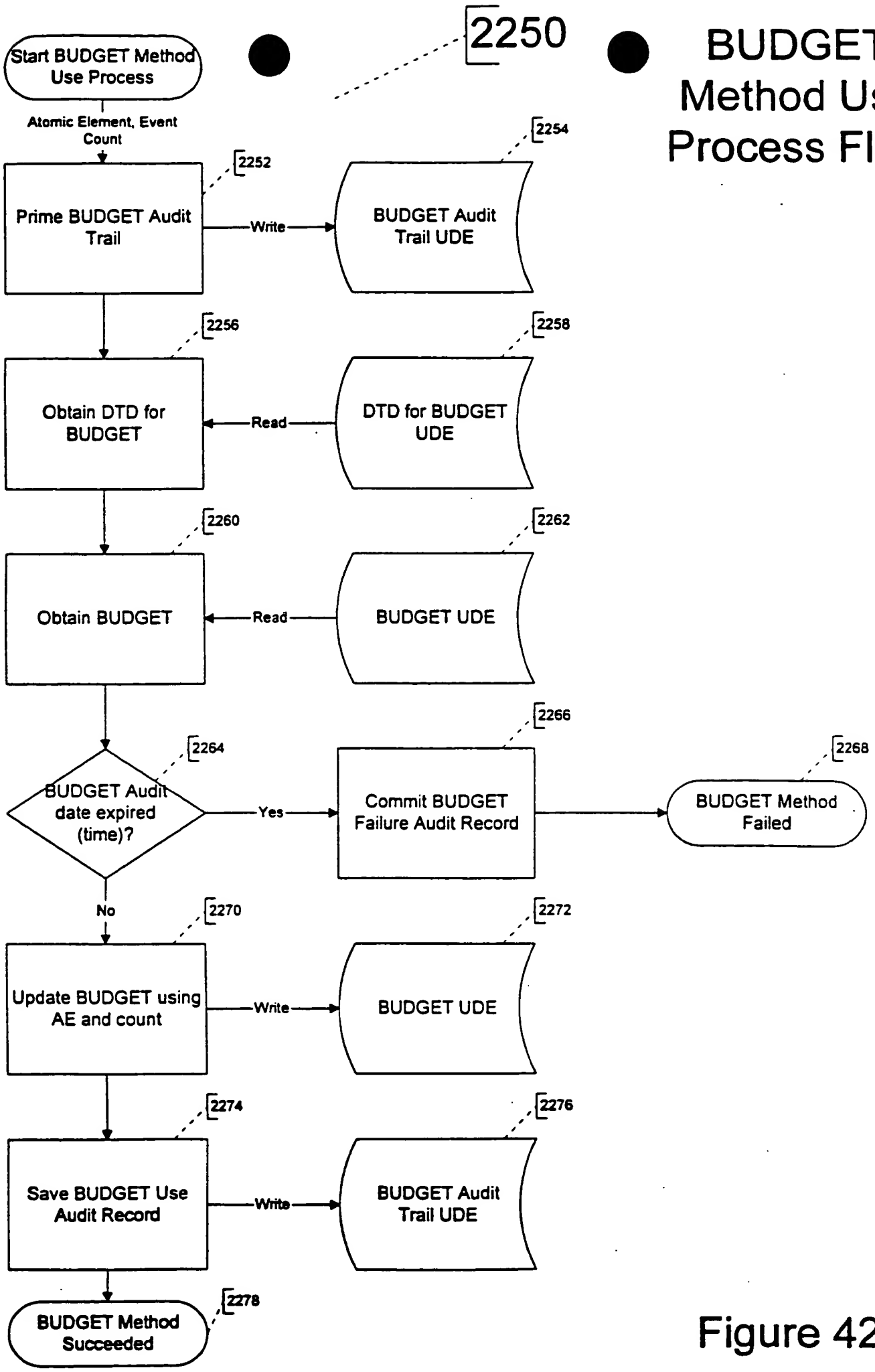


Figure 41d

004030" 11152E960



# BUDGET Method Use Process Flow

Figure 42a

2250

# BUDGET Method Administrative Request Process Flow

Start BUDGET Method  
Administrative Request  
Process

Prime BUDGET  
Administrative Audit  
Trail

BUDGET  
Administrative  
Audit Trail

Queue Request for  
Administrative  
Processing of  
BUDGET

BUDGET  
Administrative  
Request

Save BUDGET  
Administrative Audit  
Trail

BUDGET  
Administrative  
Audit Trail

Some time later

Prime  
communications audit  
trail

Communications  
audit trail

Write BUDGET  
Administrative  
Request into  
Administrative  
Object

BUDGET UDE,  
BUDGET Audit  
Trail UDE(s), and  
BUDGET  
Administrative  
Request  
Record(s)

Save communications  
audit trail

Communications  
audit trail

End BUDGET Method  
Administration Request  
Process

Figure 42b

# BUDGET Method Administrative Response Process Flow

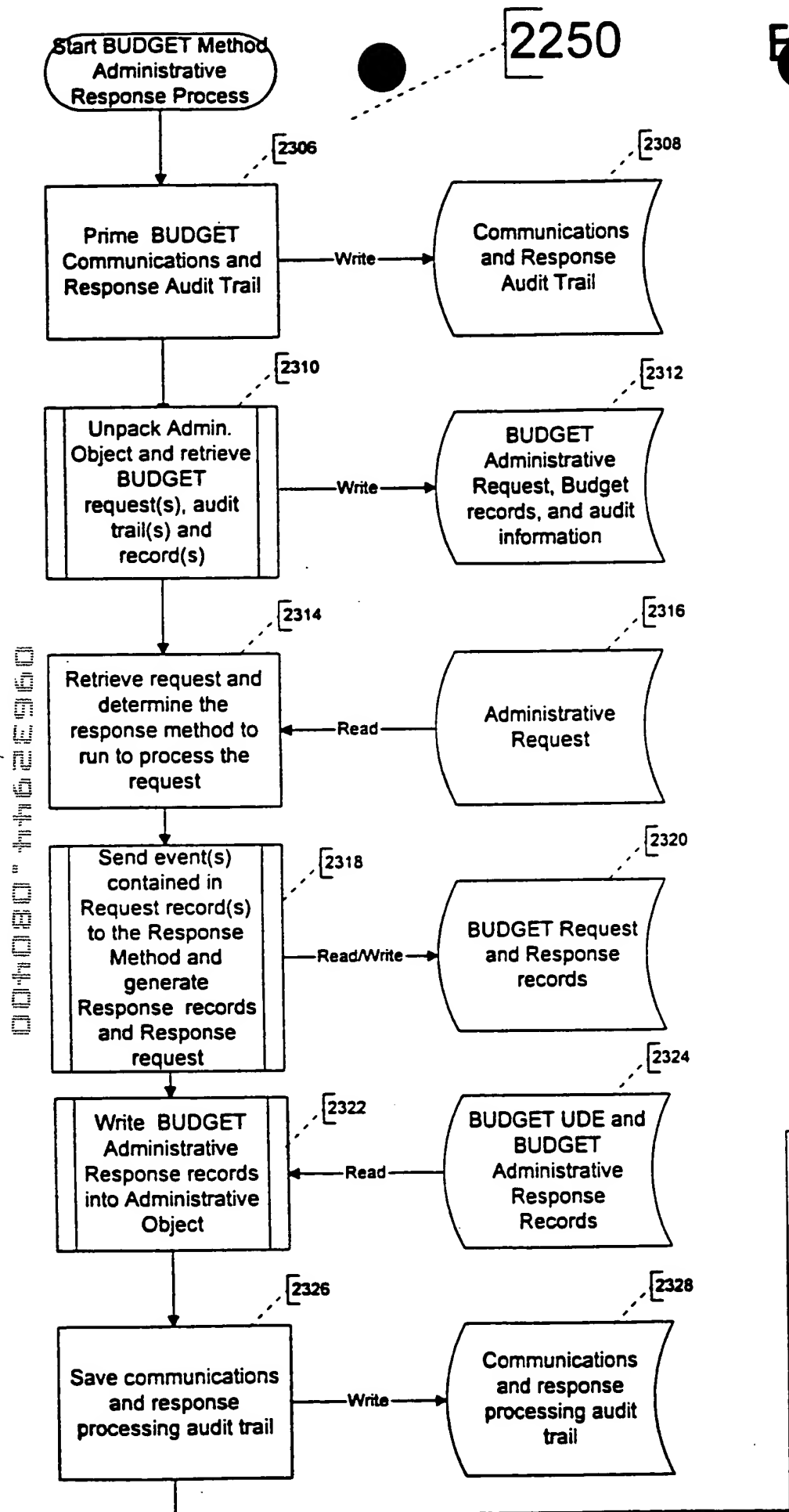


Figure 42c

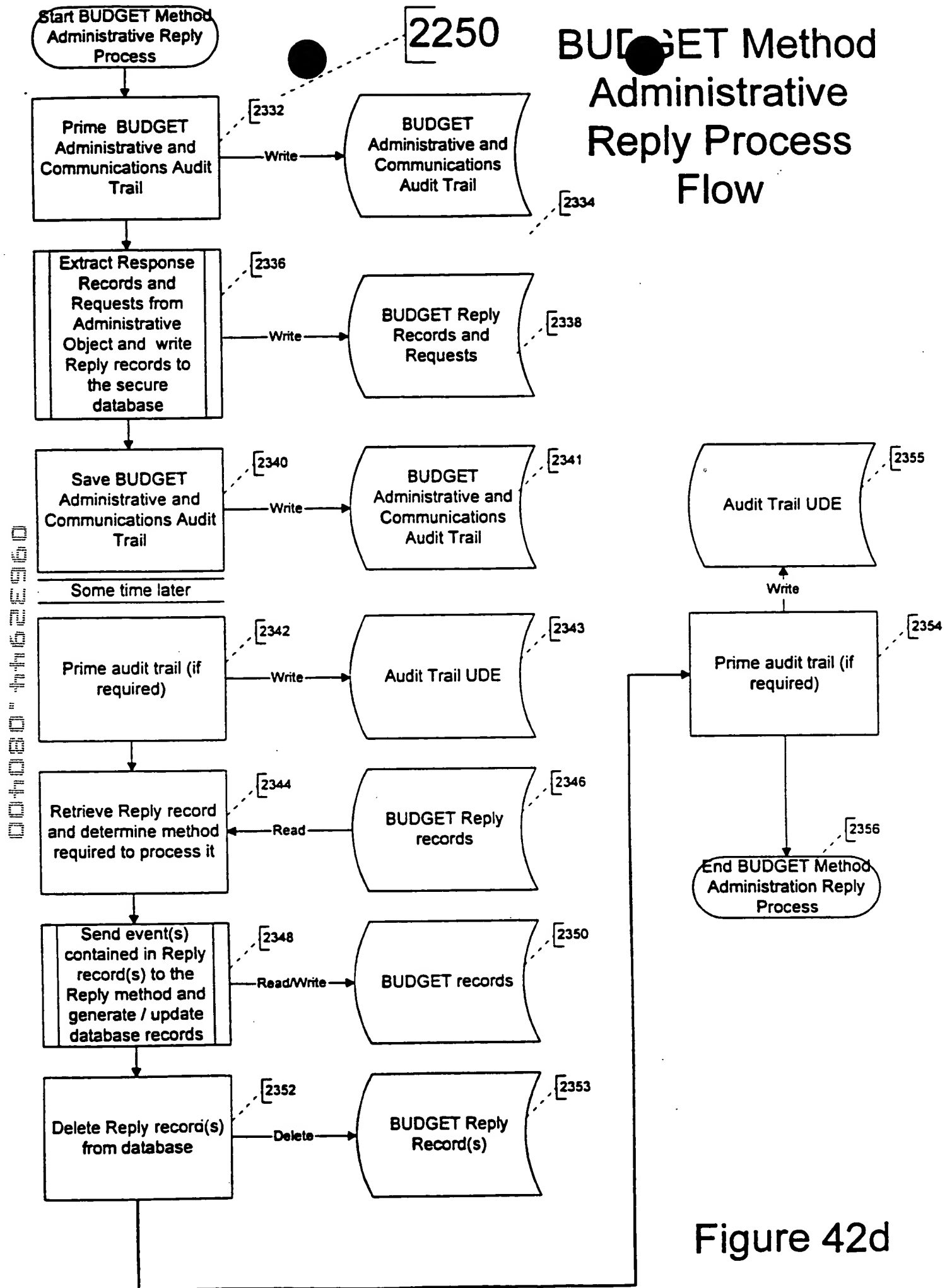


Figure 42d

2400

# REGISTER Method Use Process Flow

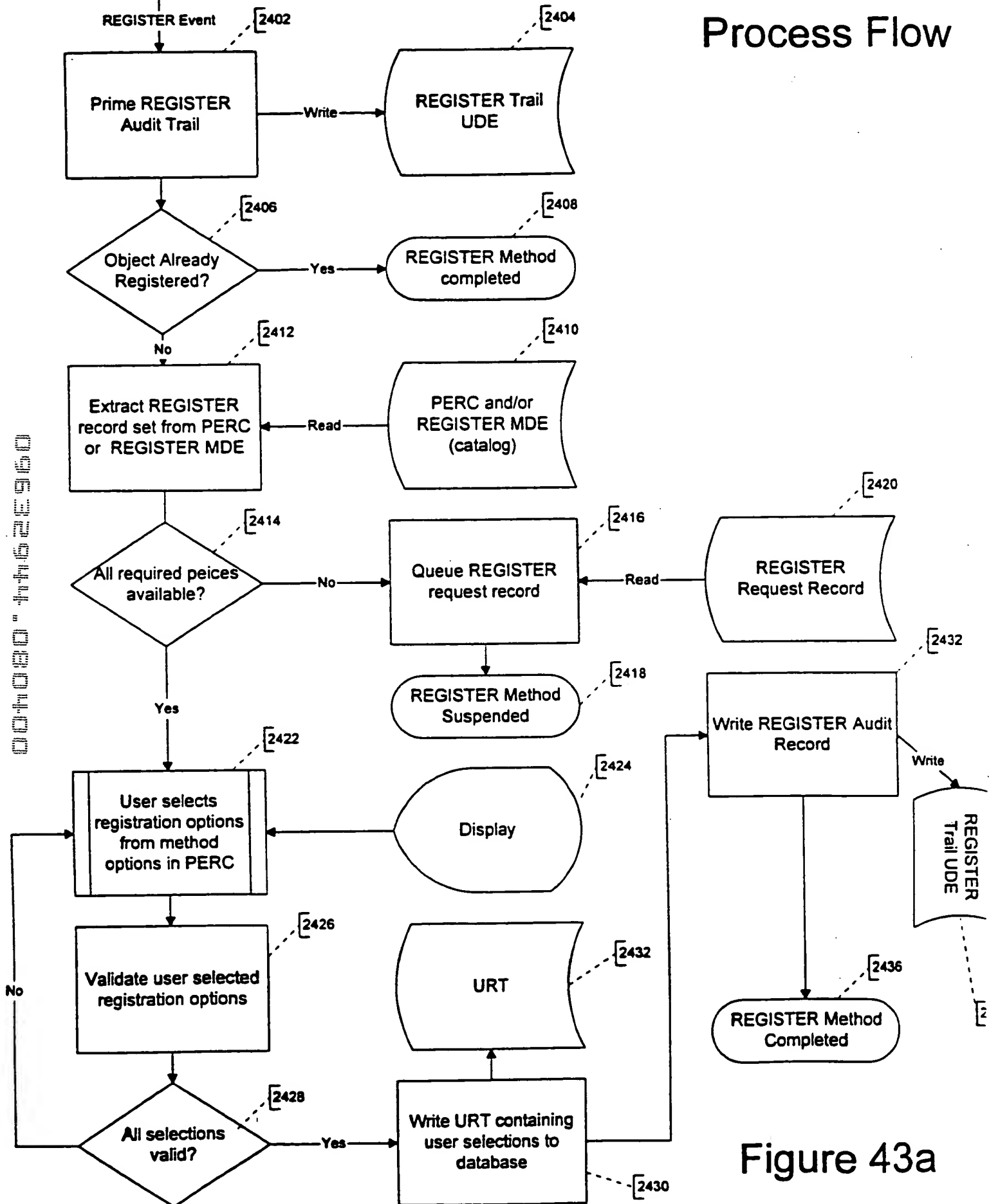


Figure 43a

# REGISTER Method Administrative Request Process Flow

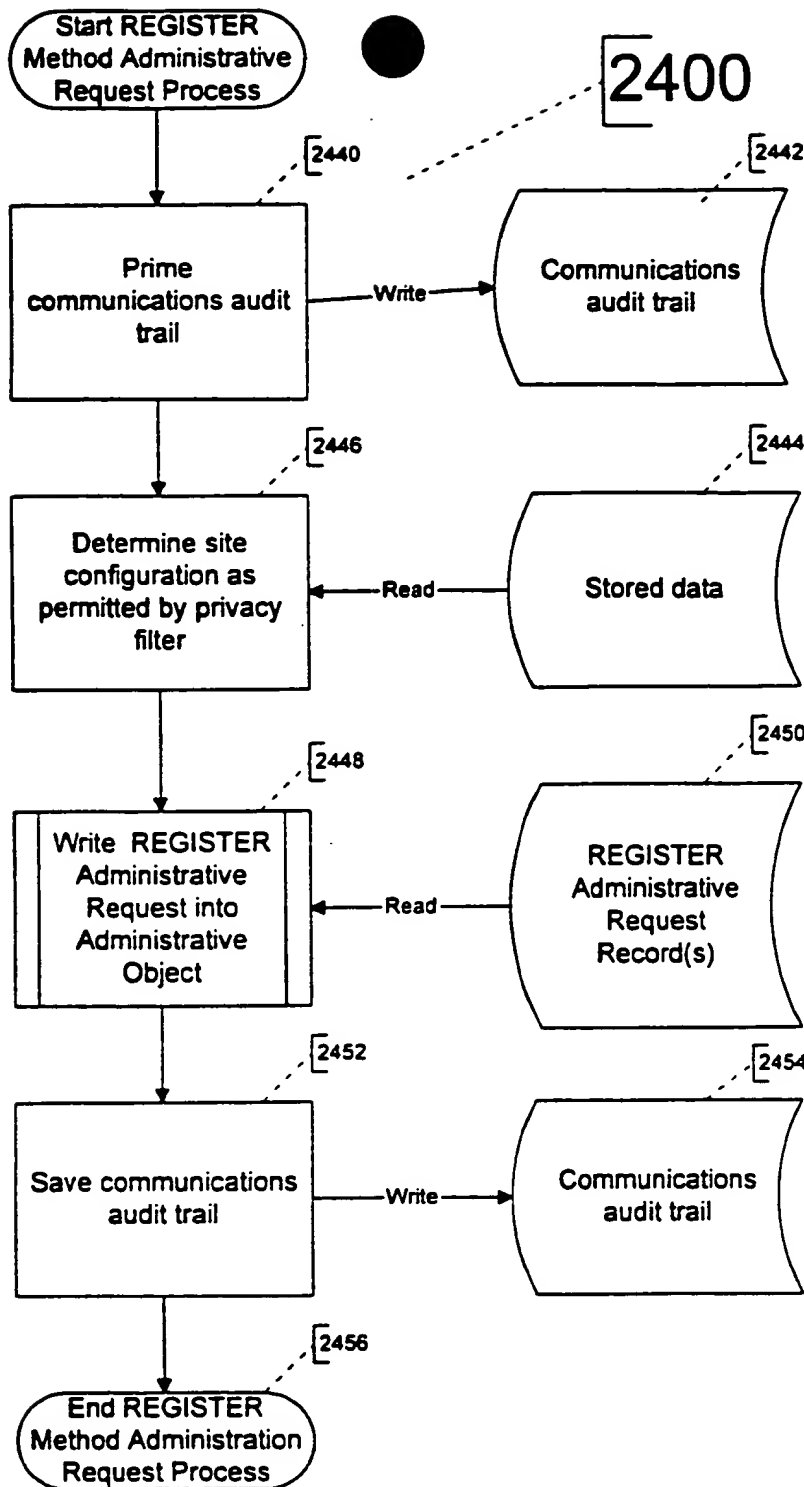


Figure 43b

# REGISTER Method Administrative Response Process Flow

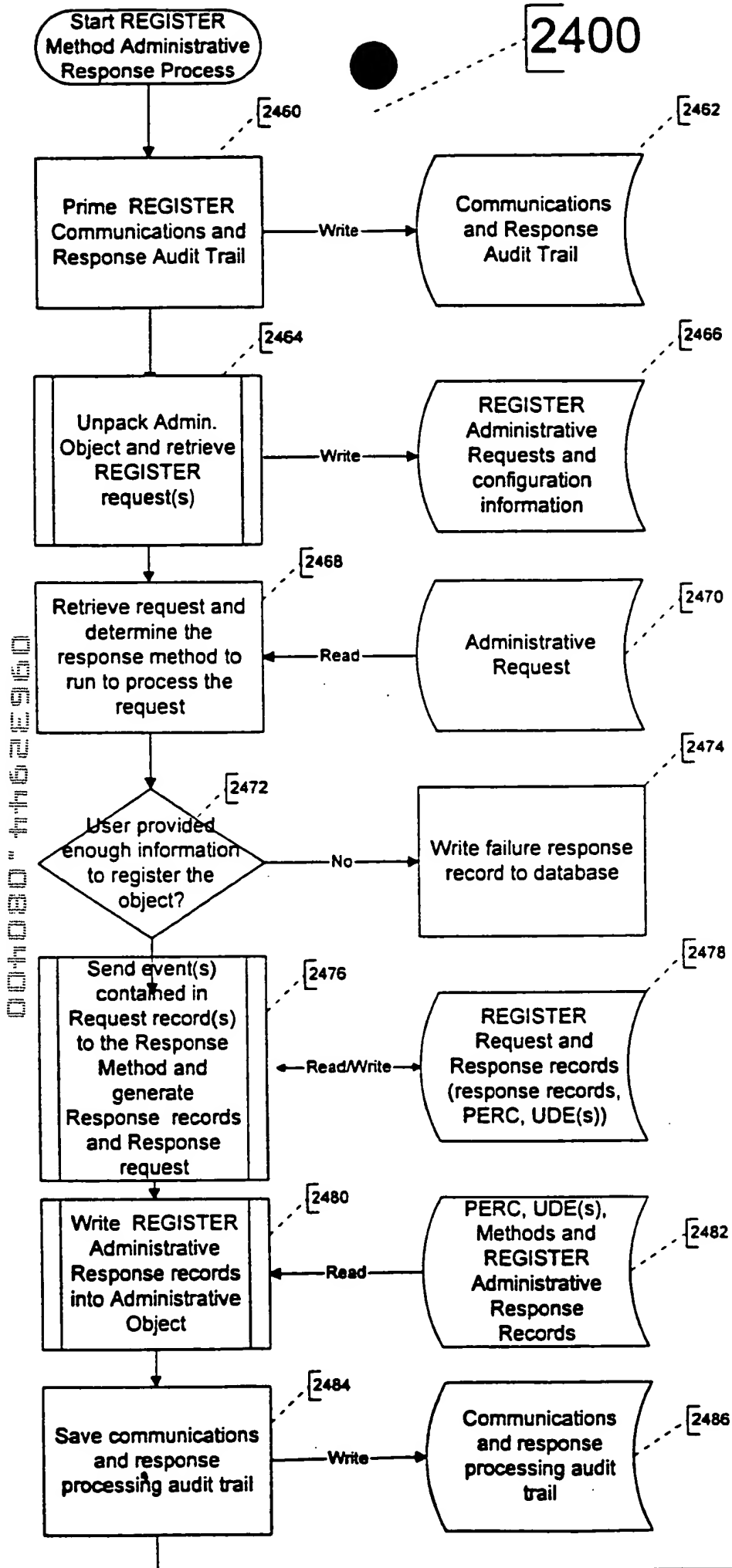


Figure 43c



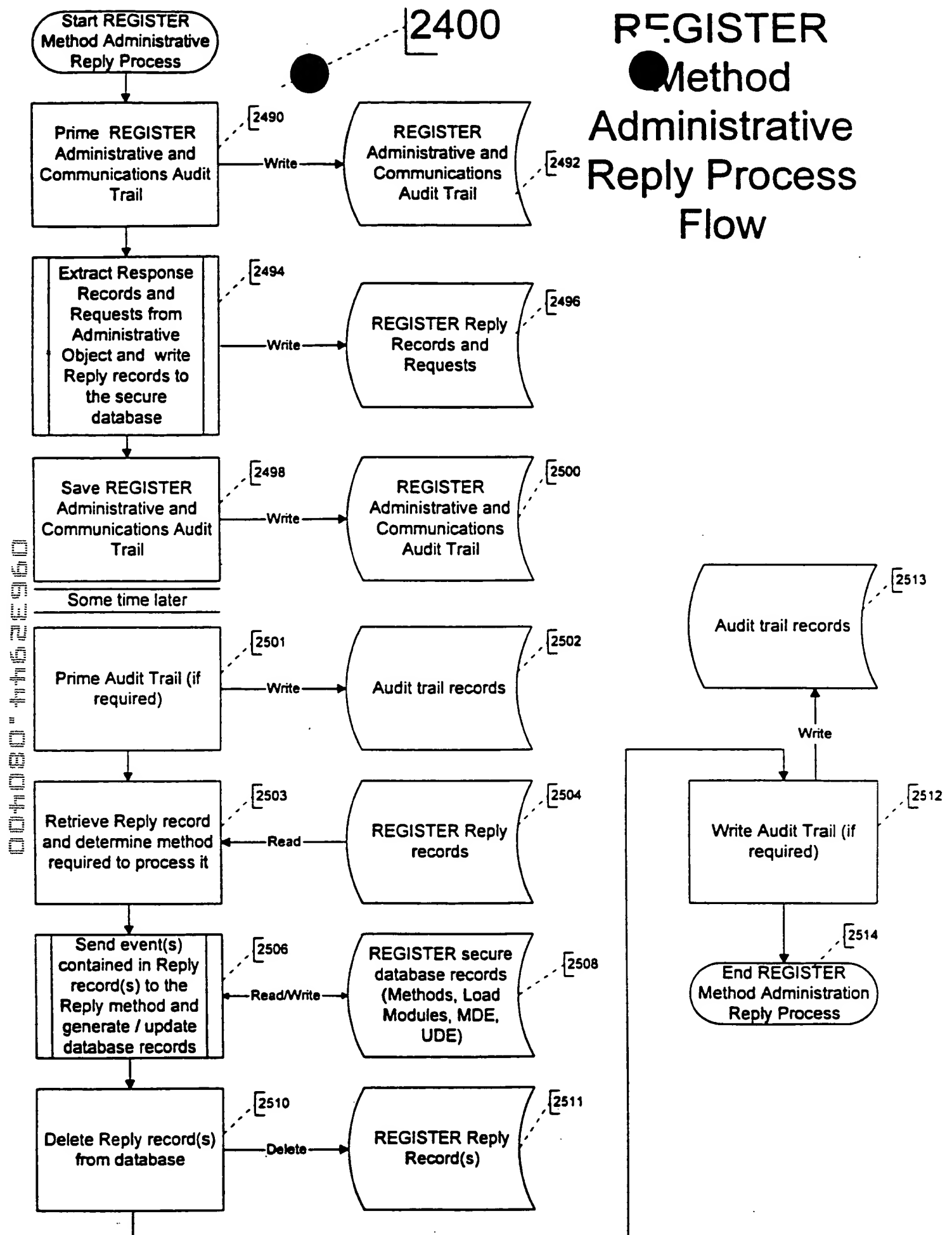


Figure 43d

2520

# AUDIT Method Administrative Request Process Flow

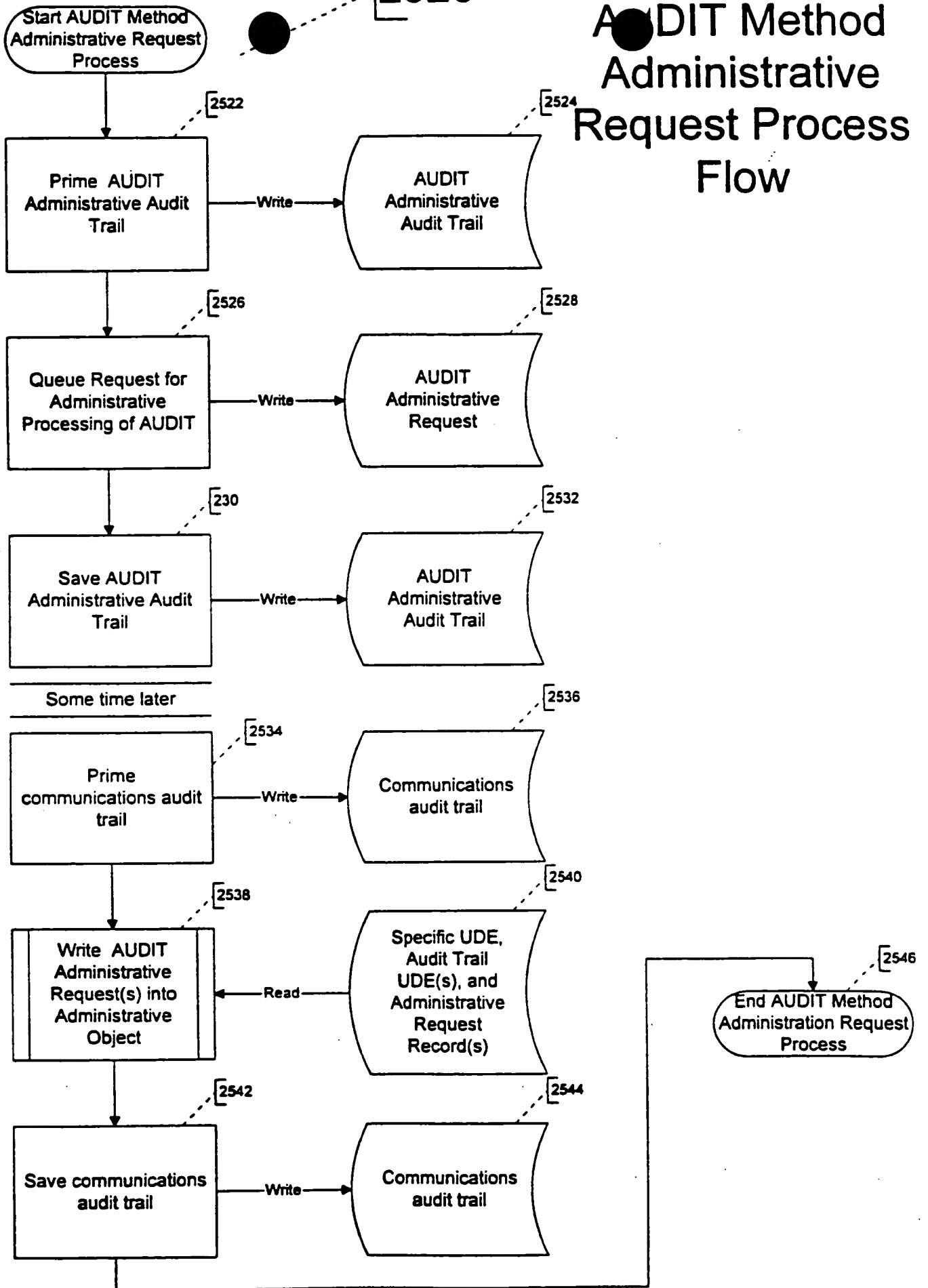


Figure 44a

# AUDIT Method Administrative Response Process Flow

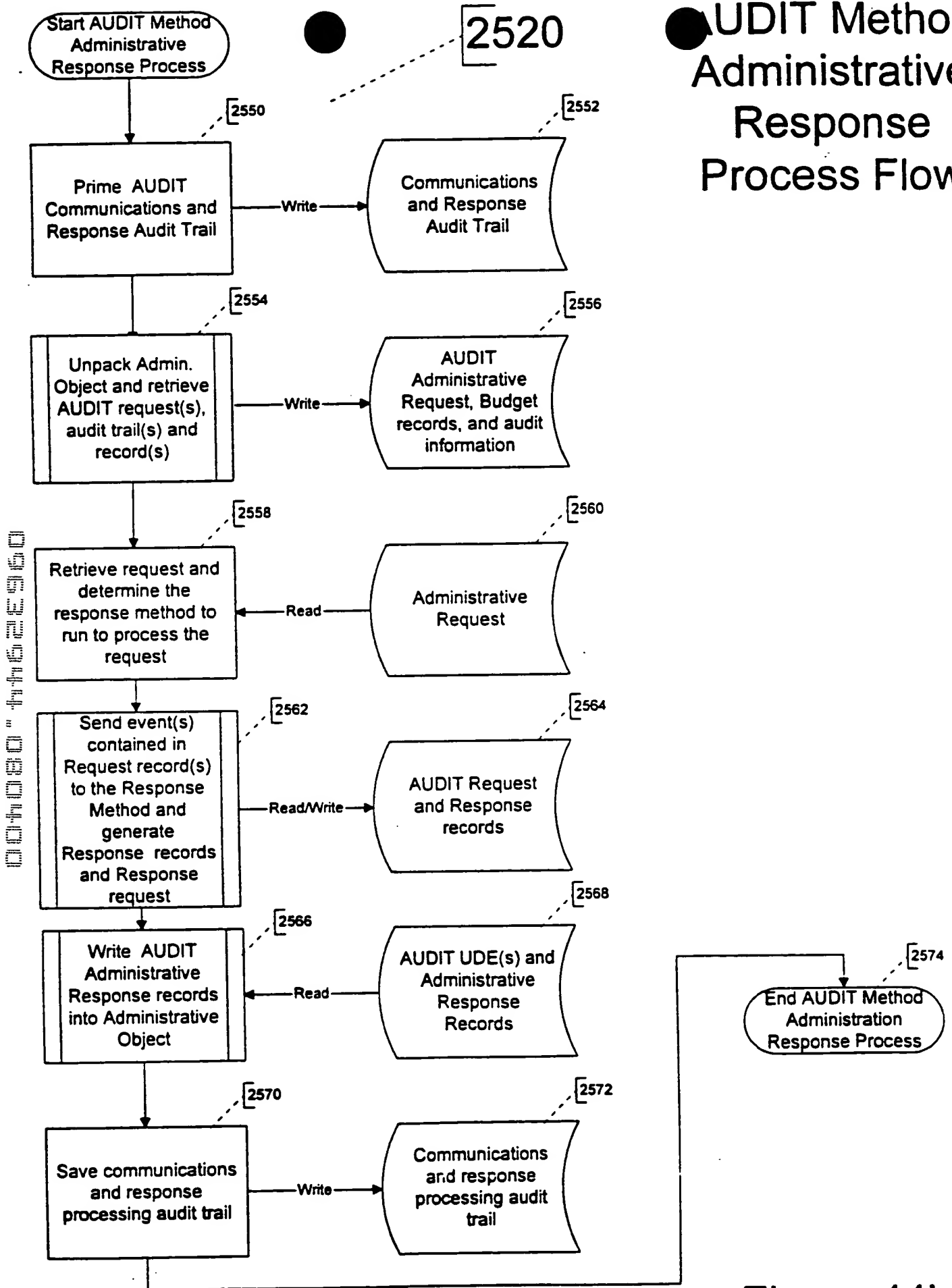


Figure 44b

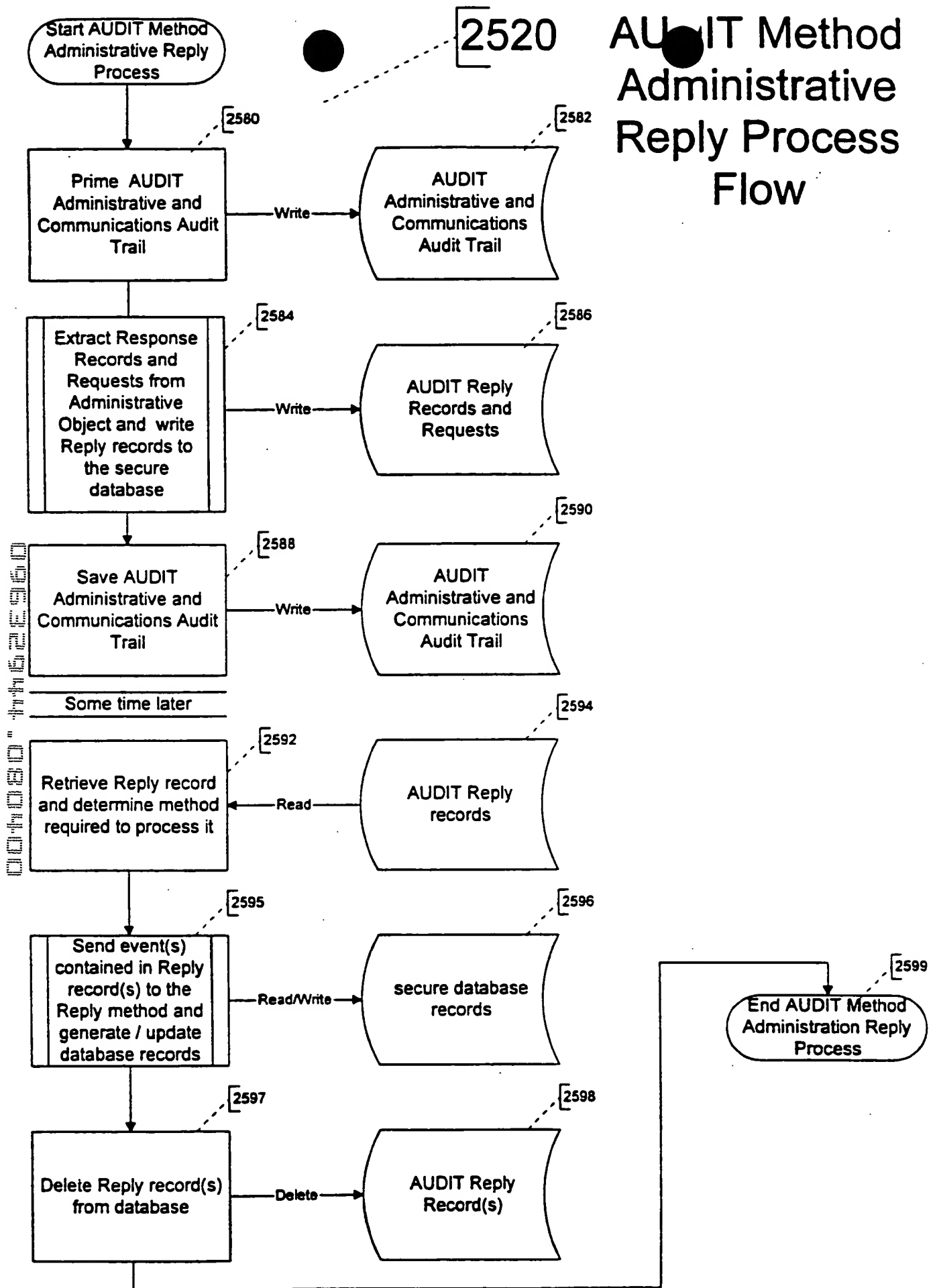


Figure 44c

FIG. 45

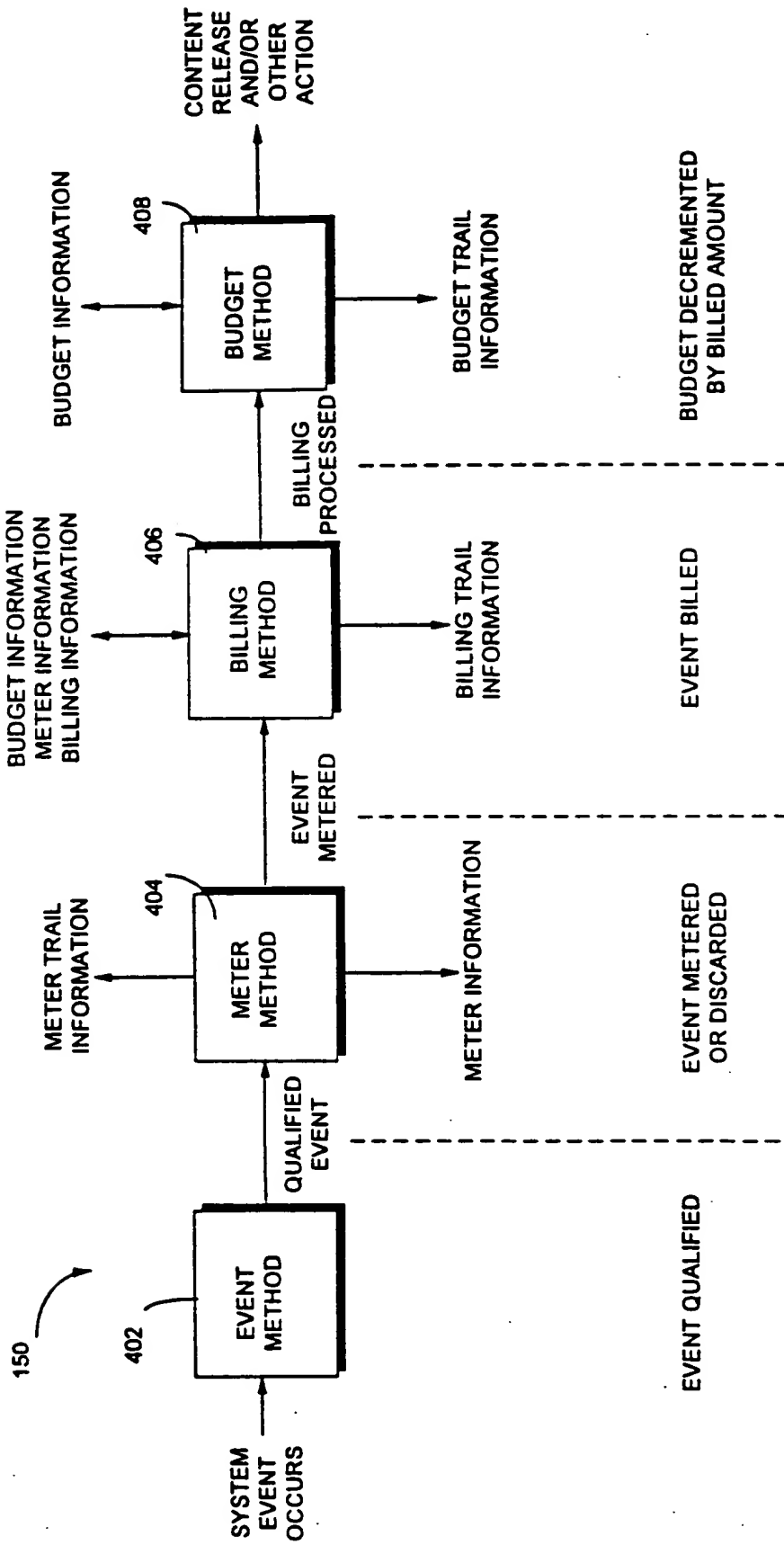
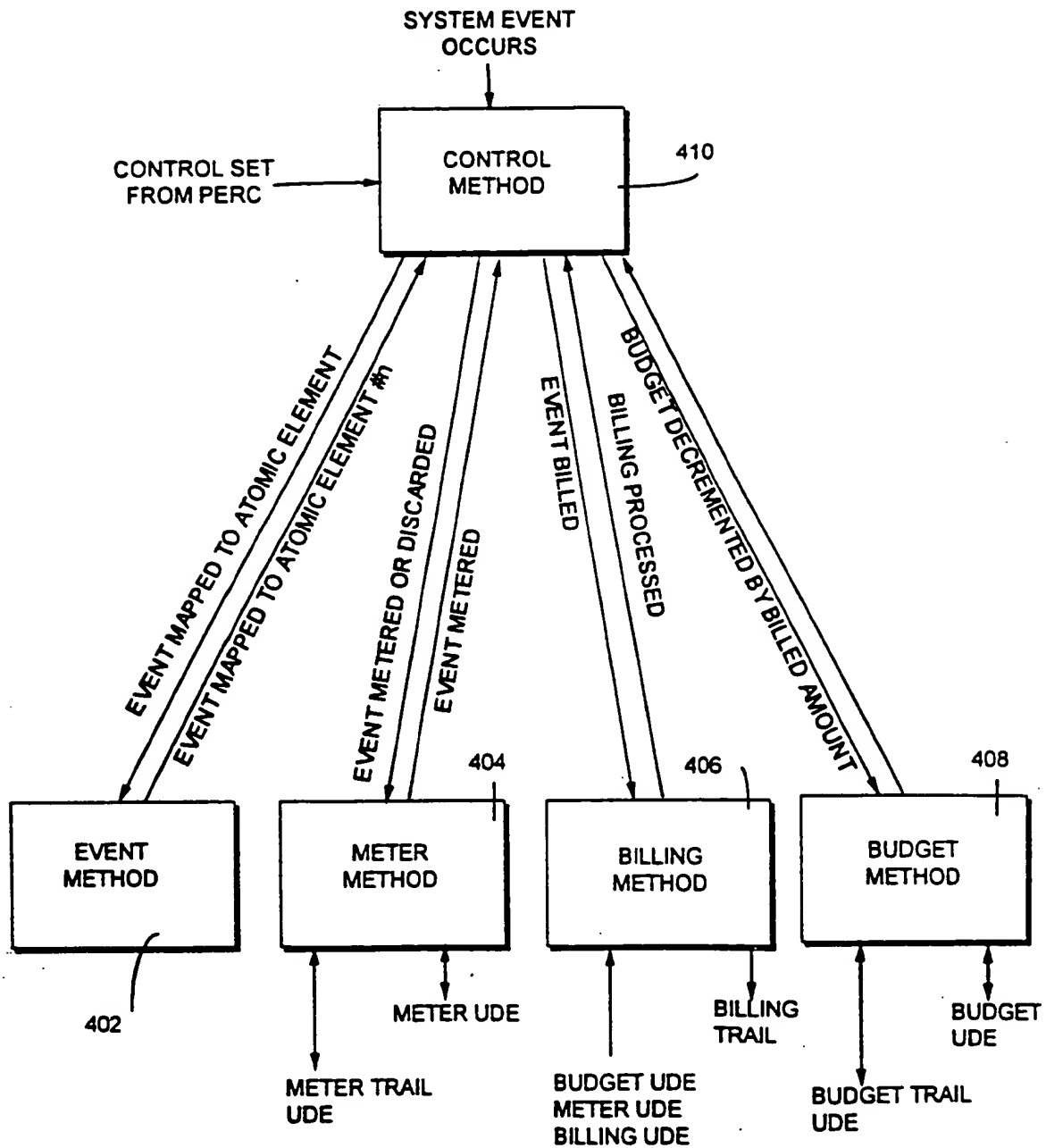
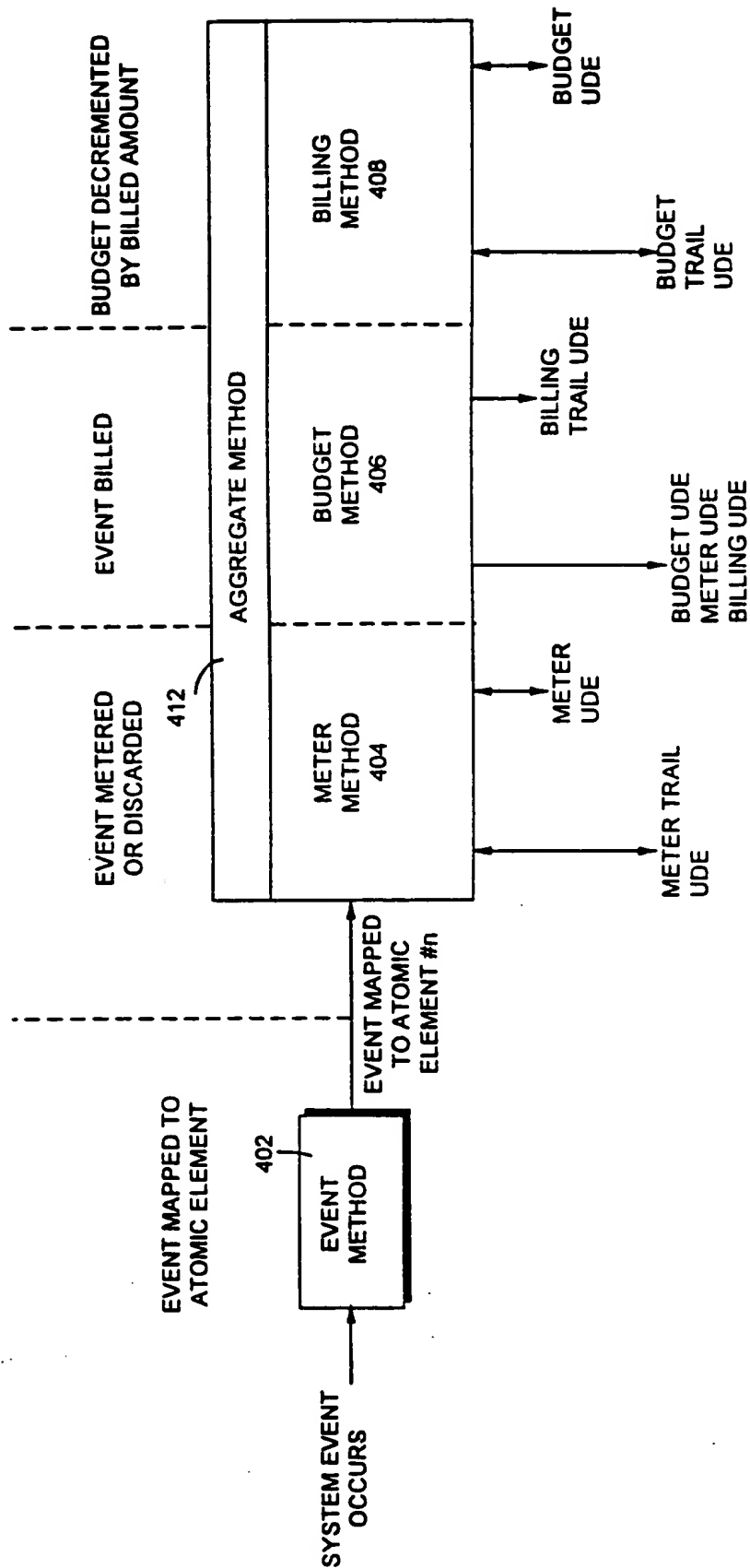


FIG. 46



004080-1162E960

FIG. 47







# OPEN Method Use Process Flow

004030" 4452E60

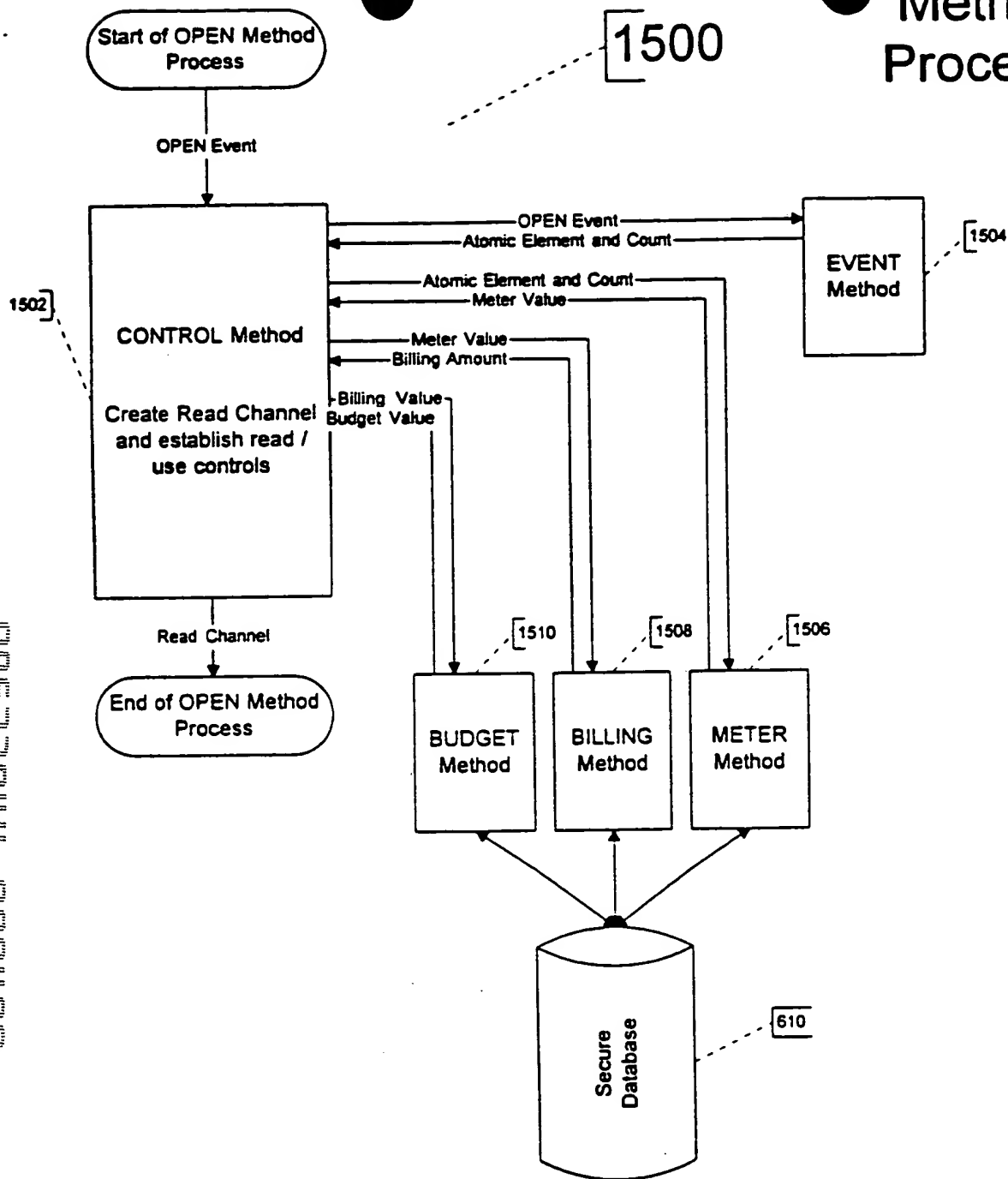


Figure 49

1500

Start of OPEN Method  
Process

1502

OPEN Event

Determine identification  
of object and user to be  
opened.

1520

OPEN Event, Object ID, User ID

URT, PERC for  
(object, user)

1524

Read

Is the Object  
registered for this  
user?

1522

No

Call the  
REGISTER  
Method for the  
Object. Restart the  
OPEN Method  
once the  
registration is  
complete.

1526

Yes

Is the object  
already open for  
this user?

1528

No

OPEN Method  
Elements (Method  
core, LM, UDE,  
MDE)

1632

Read

Create channel and  
bind OPEN control  
elements to it

1530

OPEN Event, Object ID, User ID, Channel ID

Audit UDE

1534

Write

Prime Audit (if  
required)

1533

Yes

Start Secure Database  
Transaction

1536

CONTROL Method

A

Figure 49a

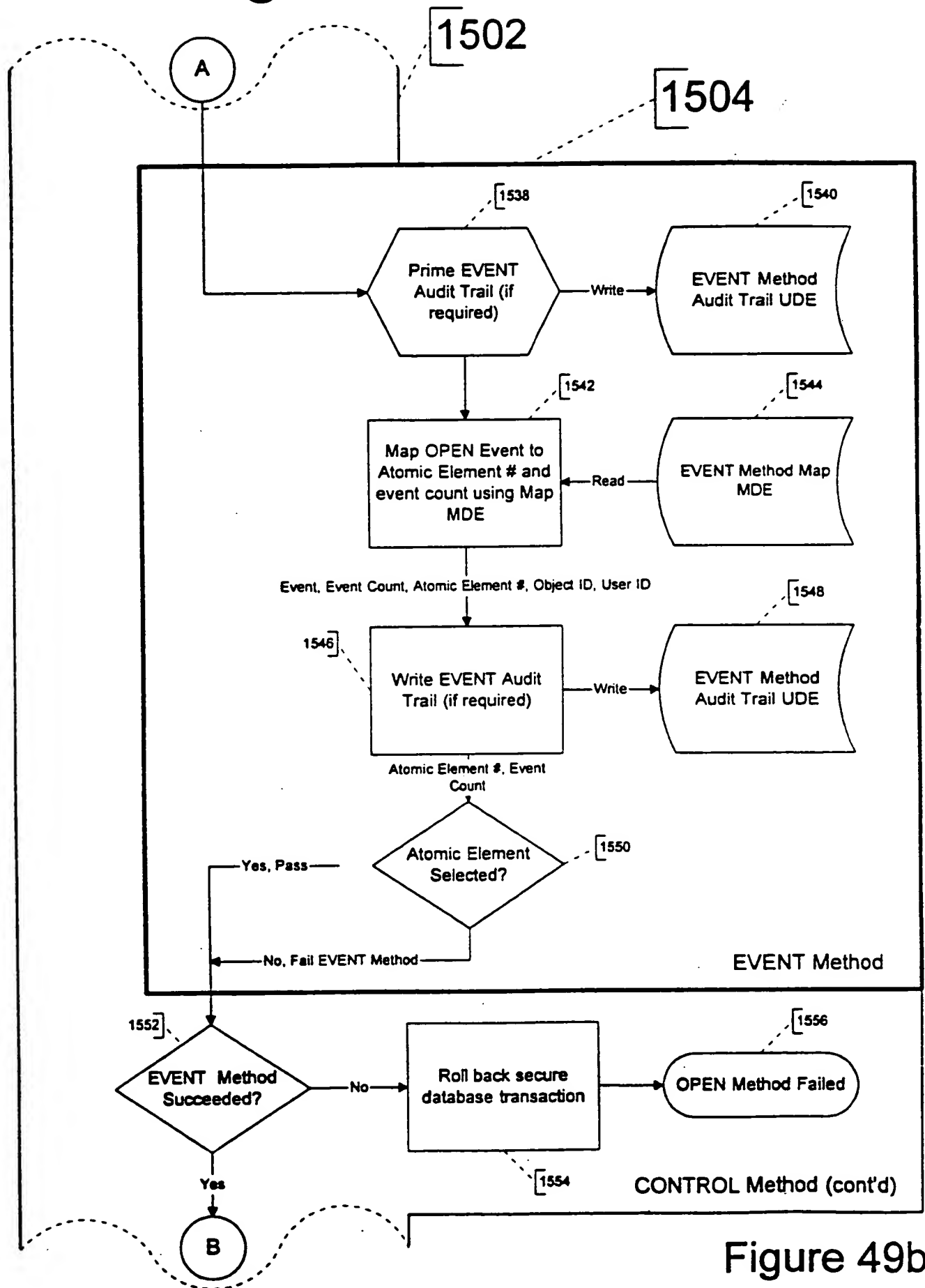


Figure 49b

004080" 4162E960

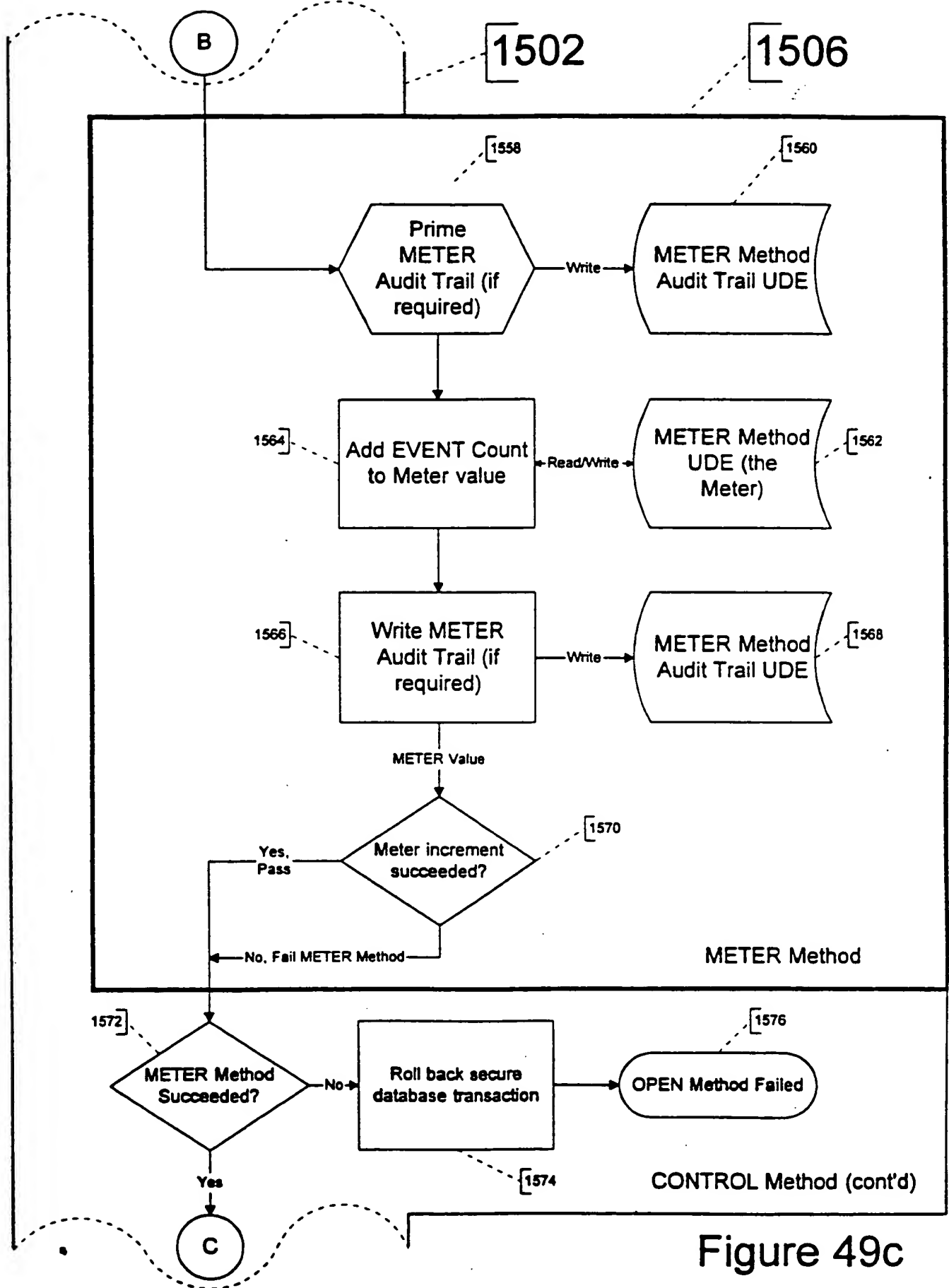


Figure 49c

1508

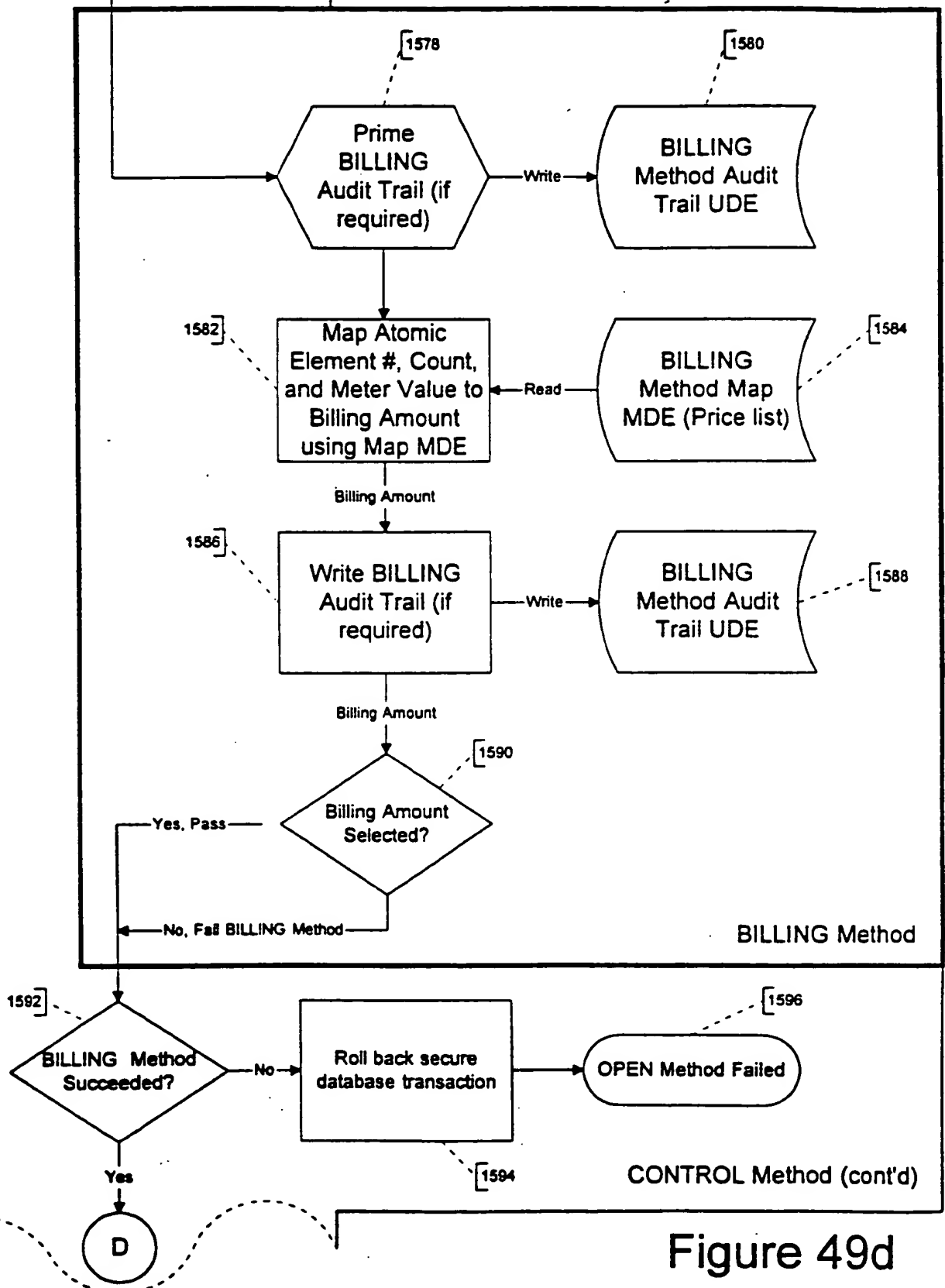


Figure 49d

004030" 4462E960

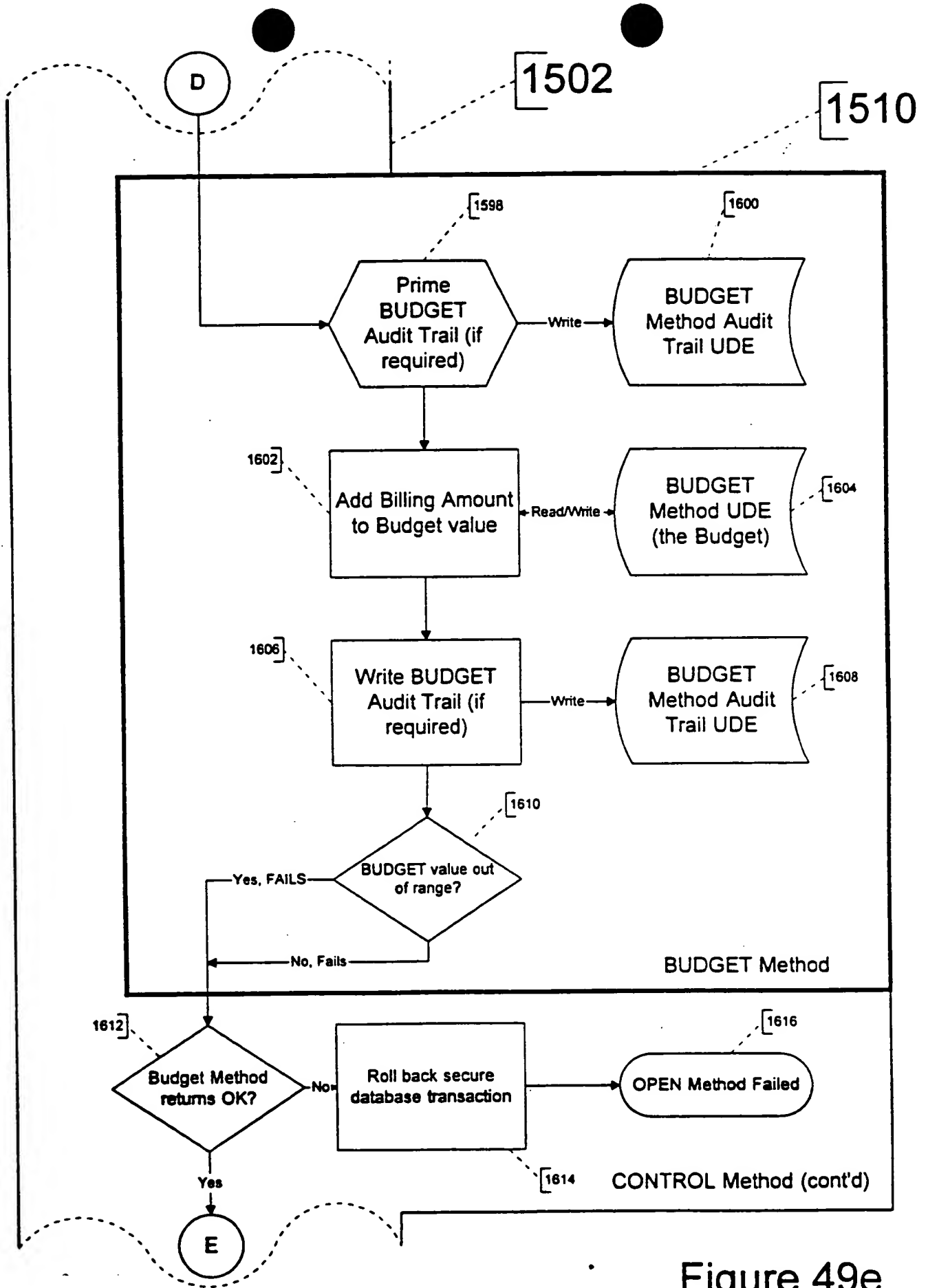


Figure 49e

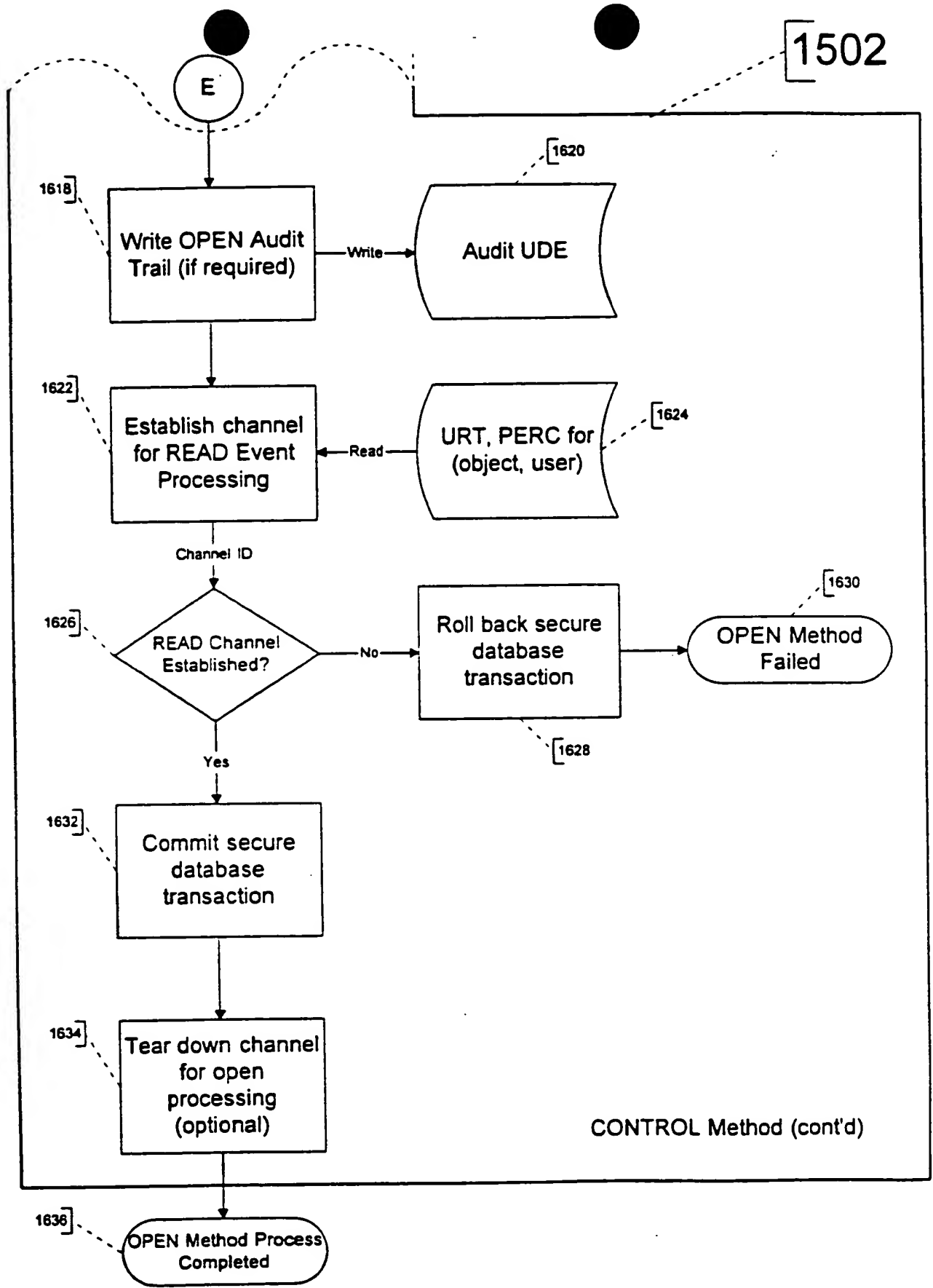


Figure 49f

# READ Method Use Process Flow

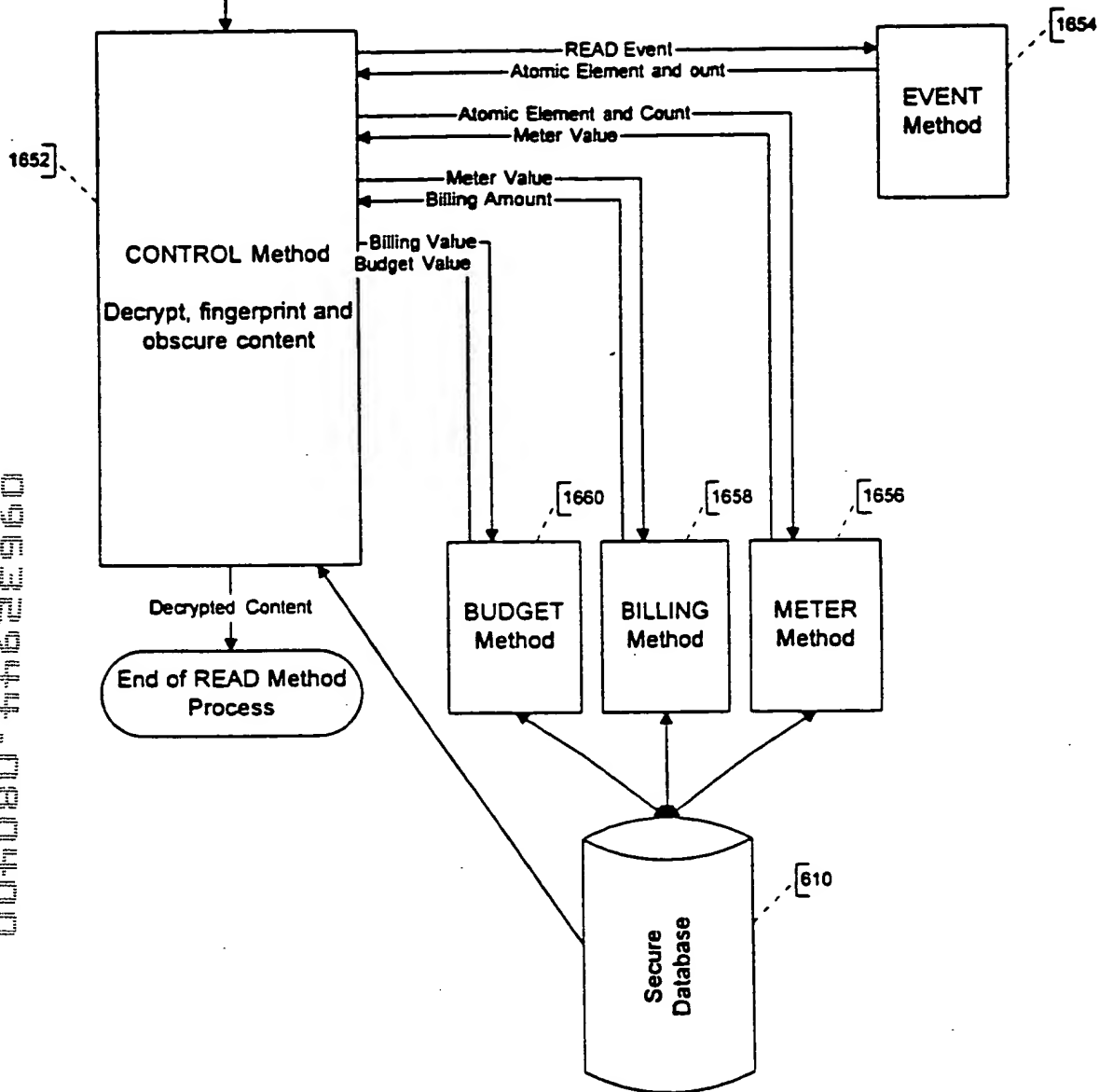


Figure 50



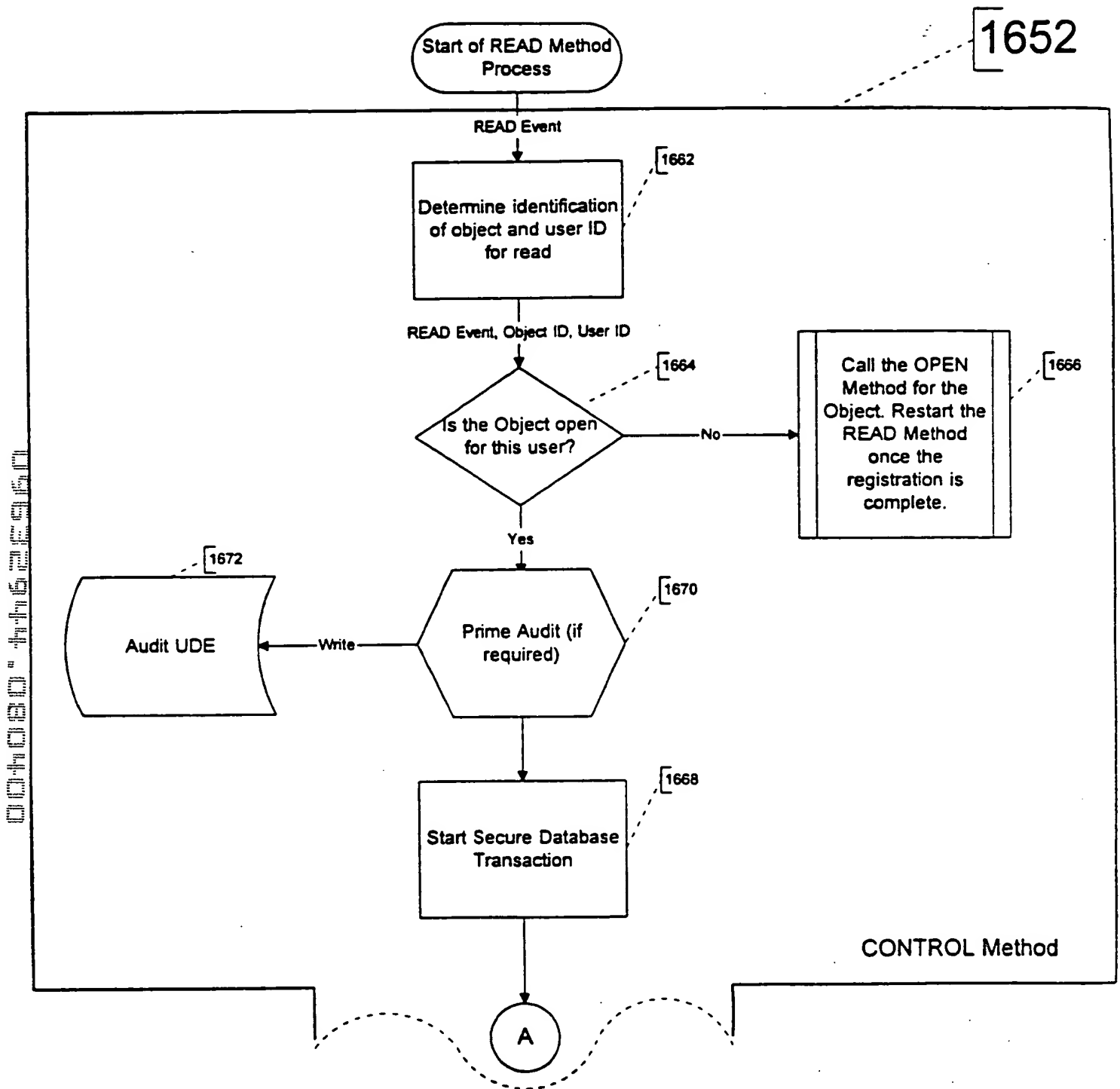


Figure 50a

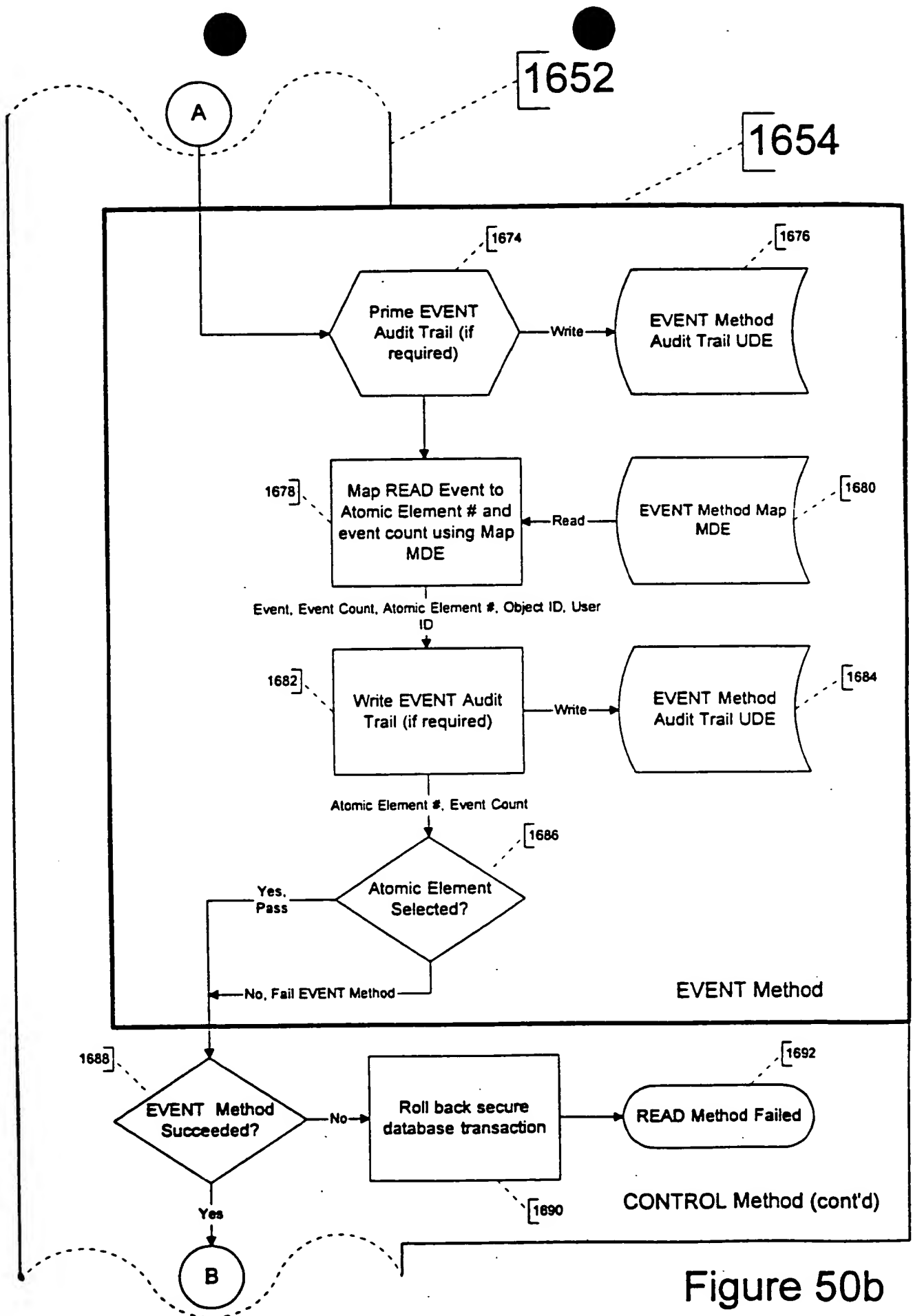


Figure 50b

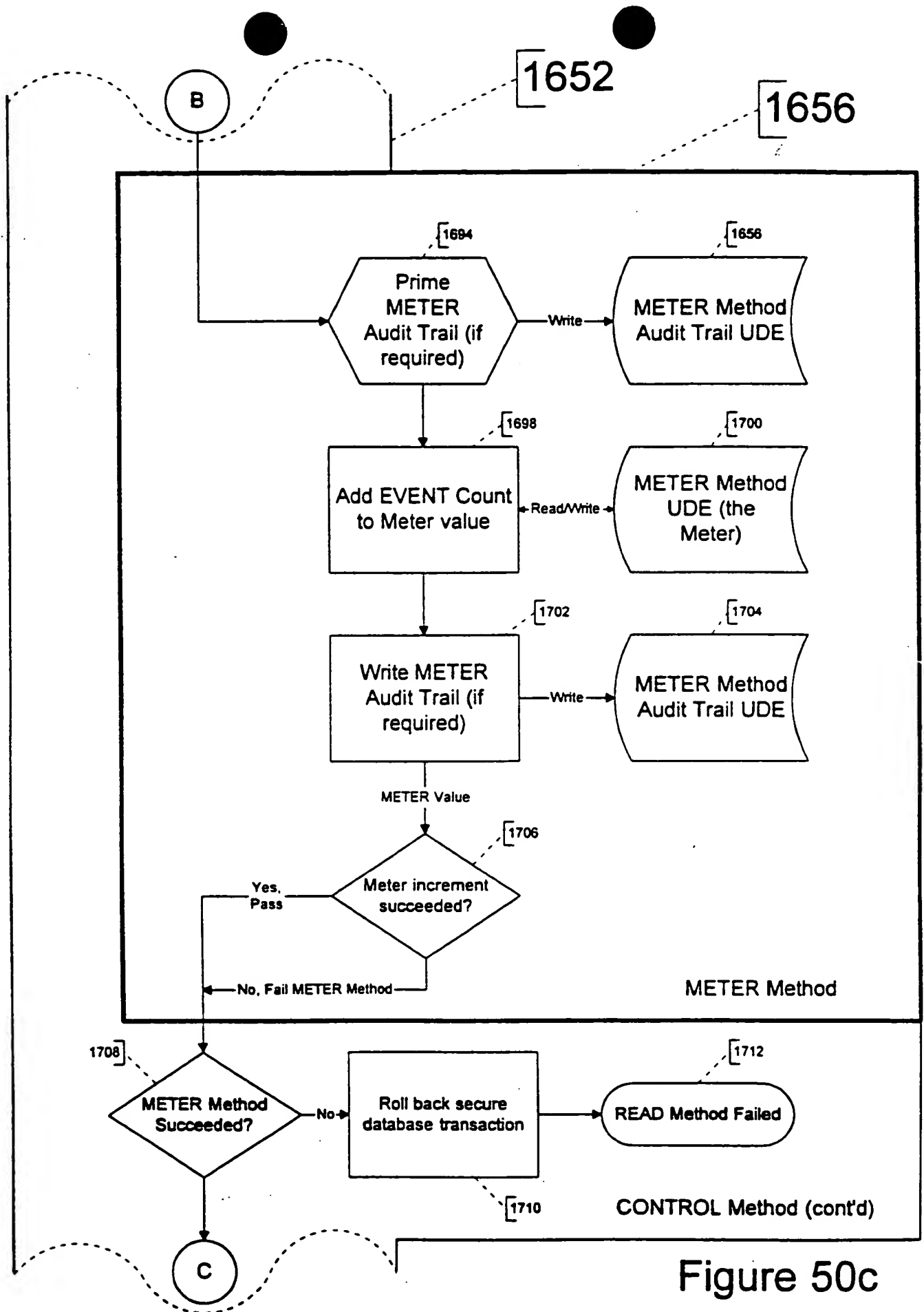


Figure 50c

090300Z FEB 68 000000Z 000000Z

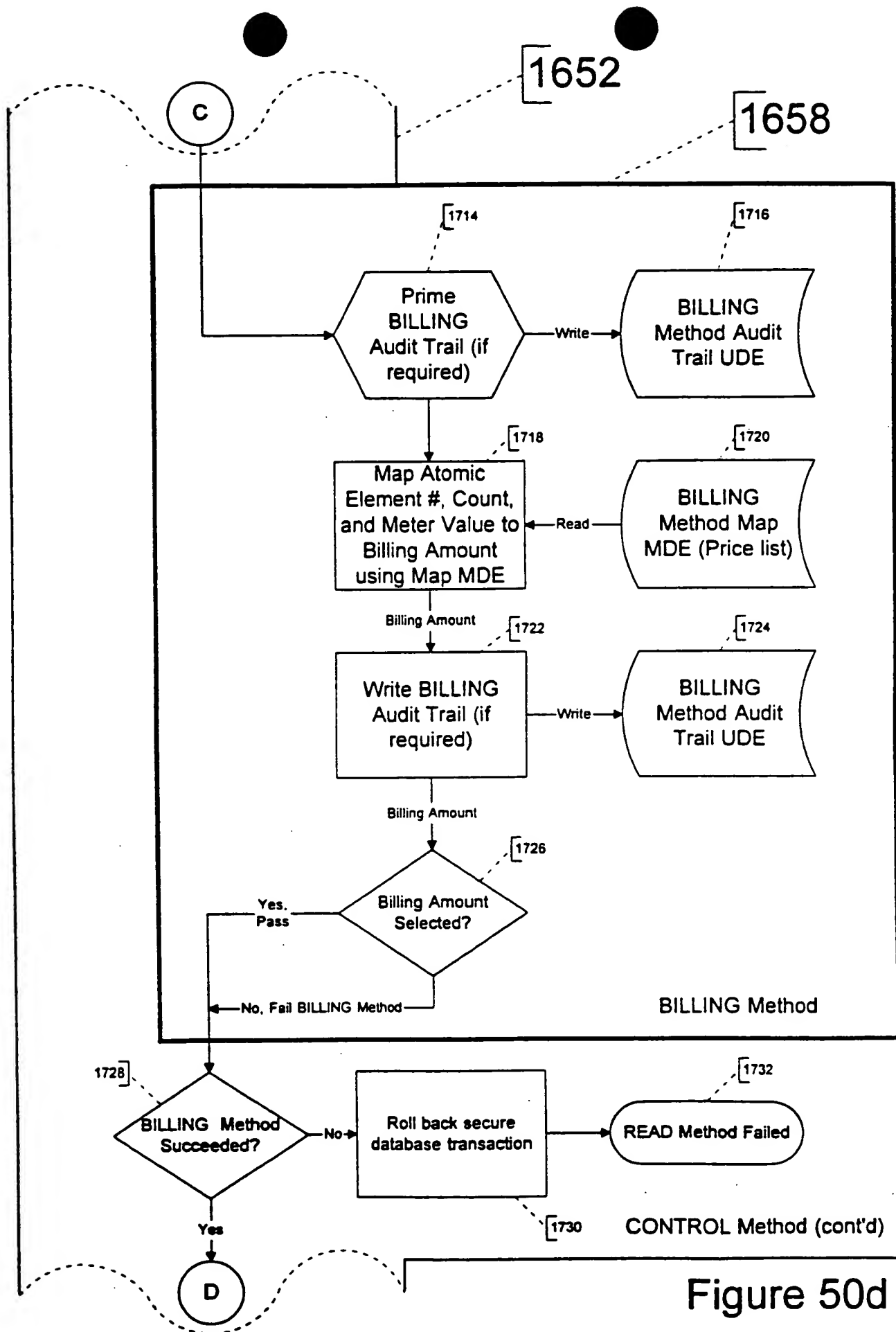


Figure 50d

004080-4462960

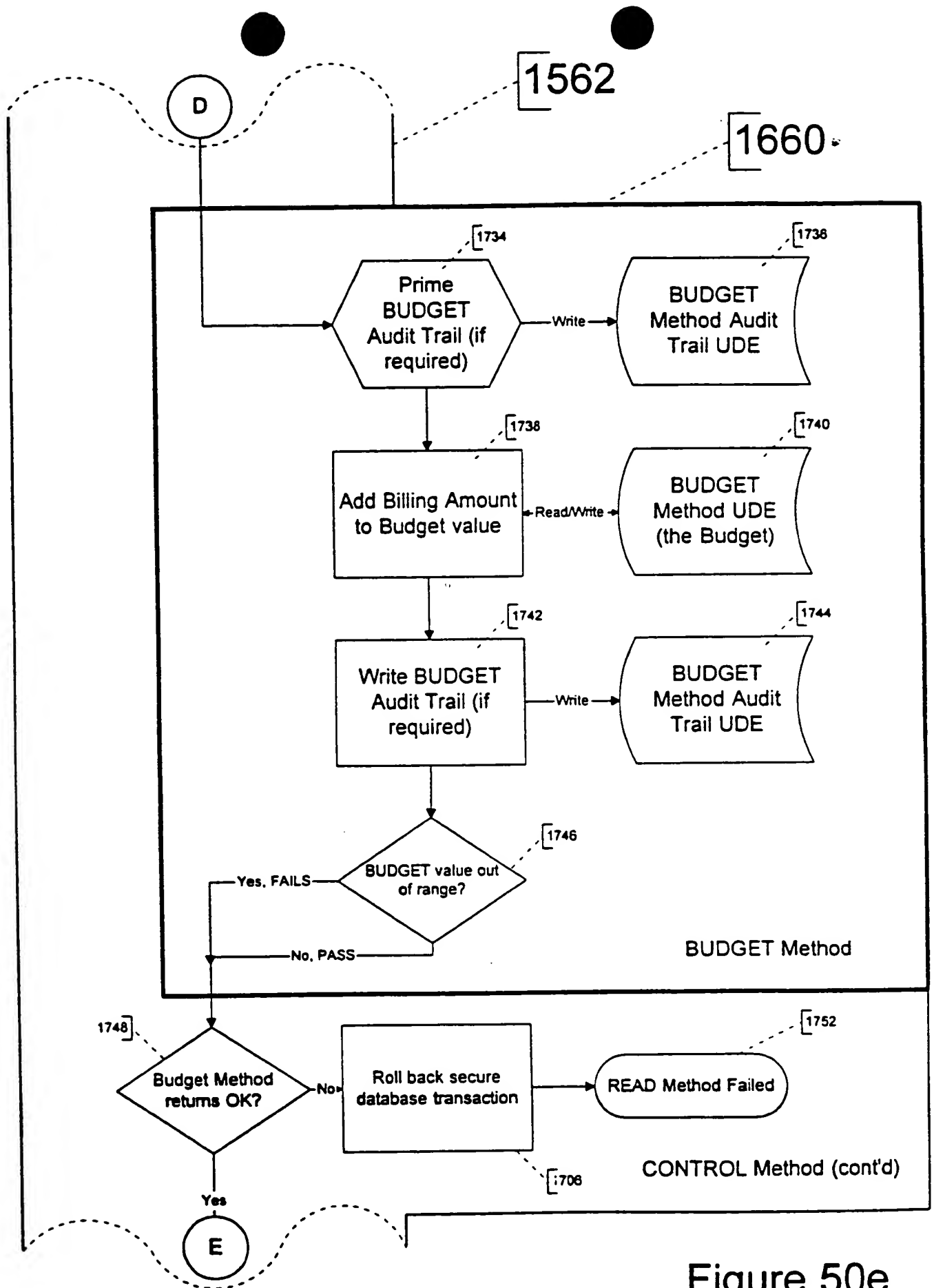
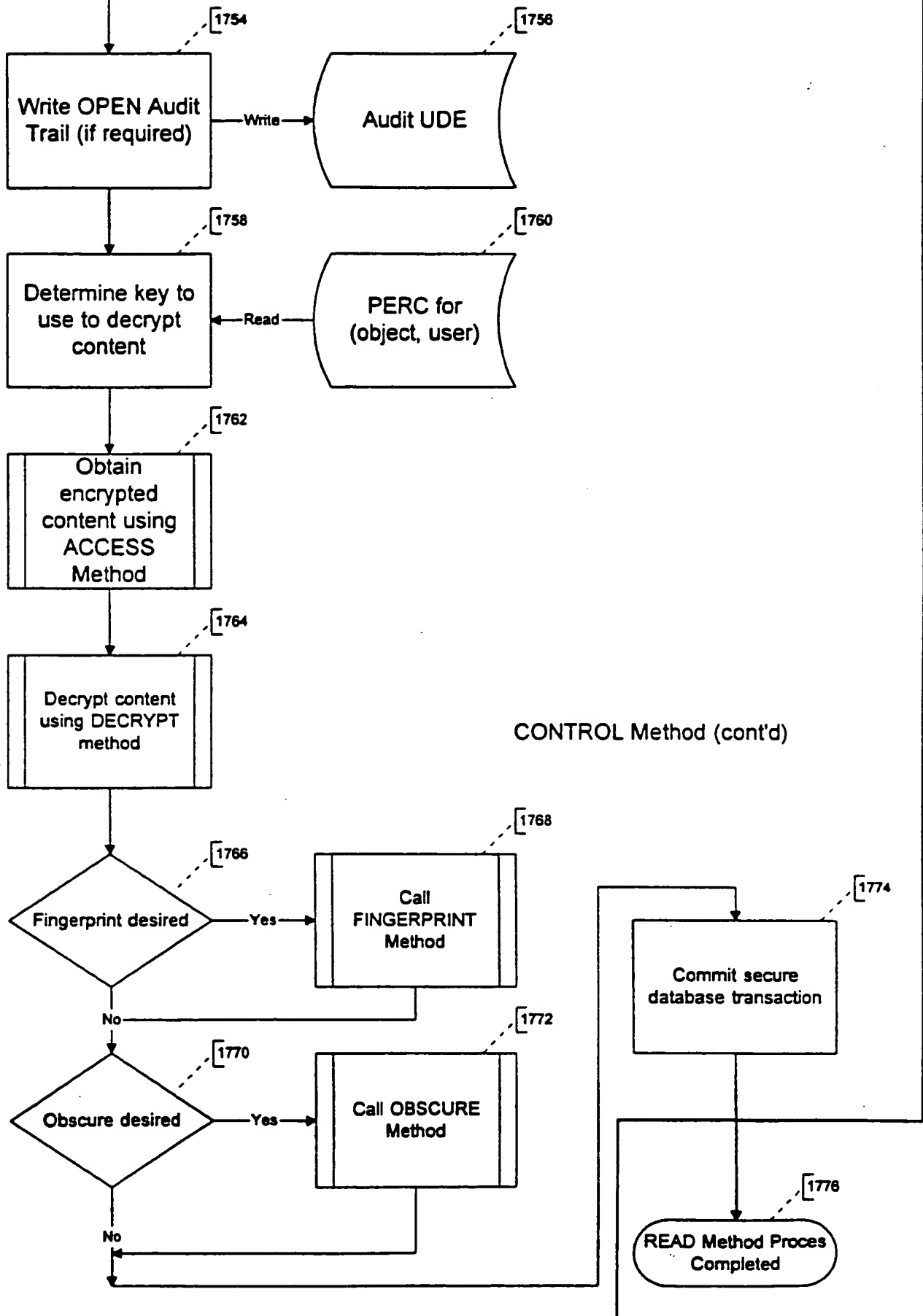


Figure 50e



# WRITE Method Use Process Flow

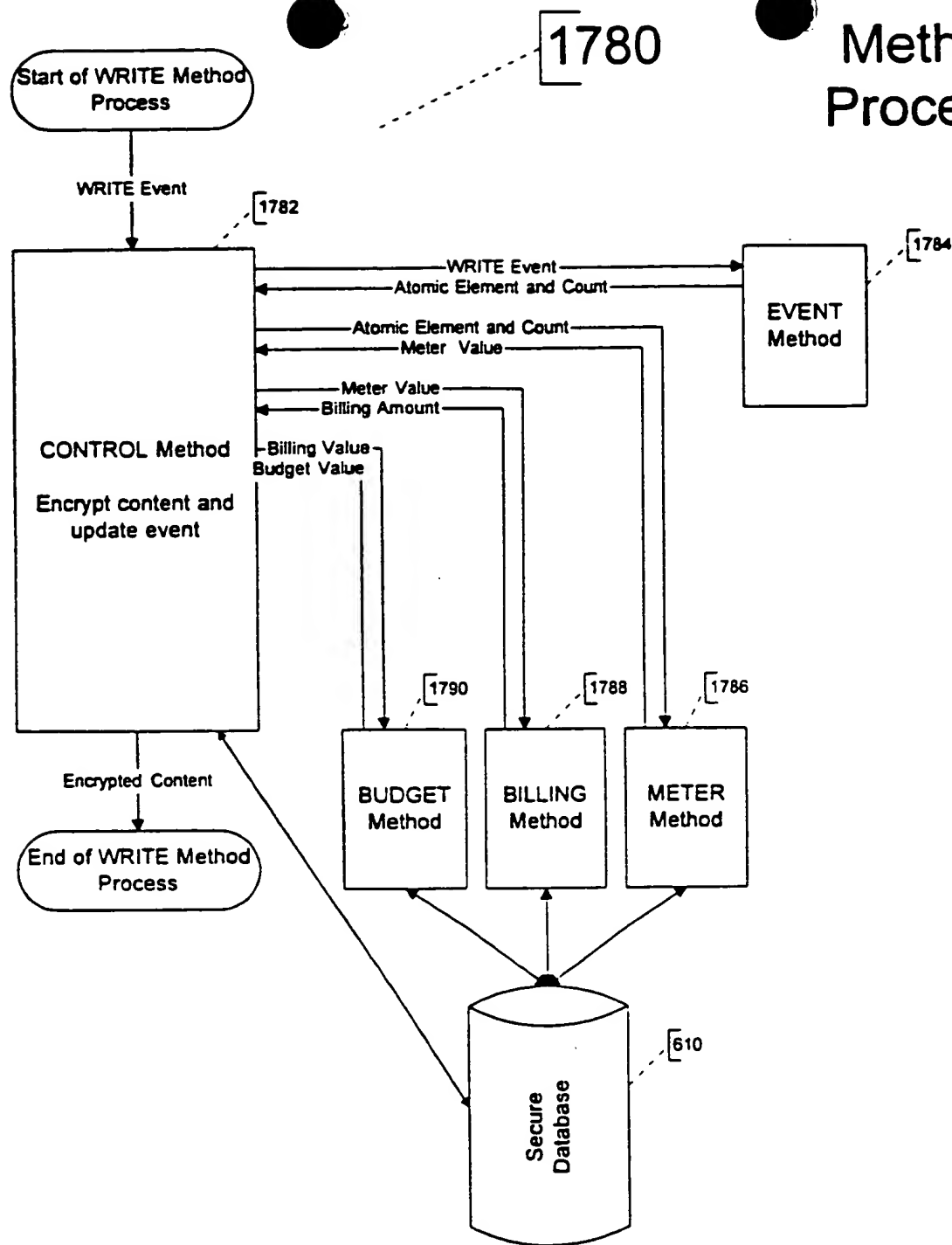


Figure 51

Start of WRITE Method  
Process

WRITE Event

Determine identification  
of object and user ID  
for read

WRITE Event, Object ID, User ID

Is the Object open  
for this user?

Call the OPEN  
Method for the  
Object. Restart the  
WRITE Method  
once the  
registration is  
complete.

Audit UDE

Write

Prime Audit (if  
required)

Start Secure Database  
Transaction

A

Figure 51a



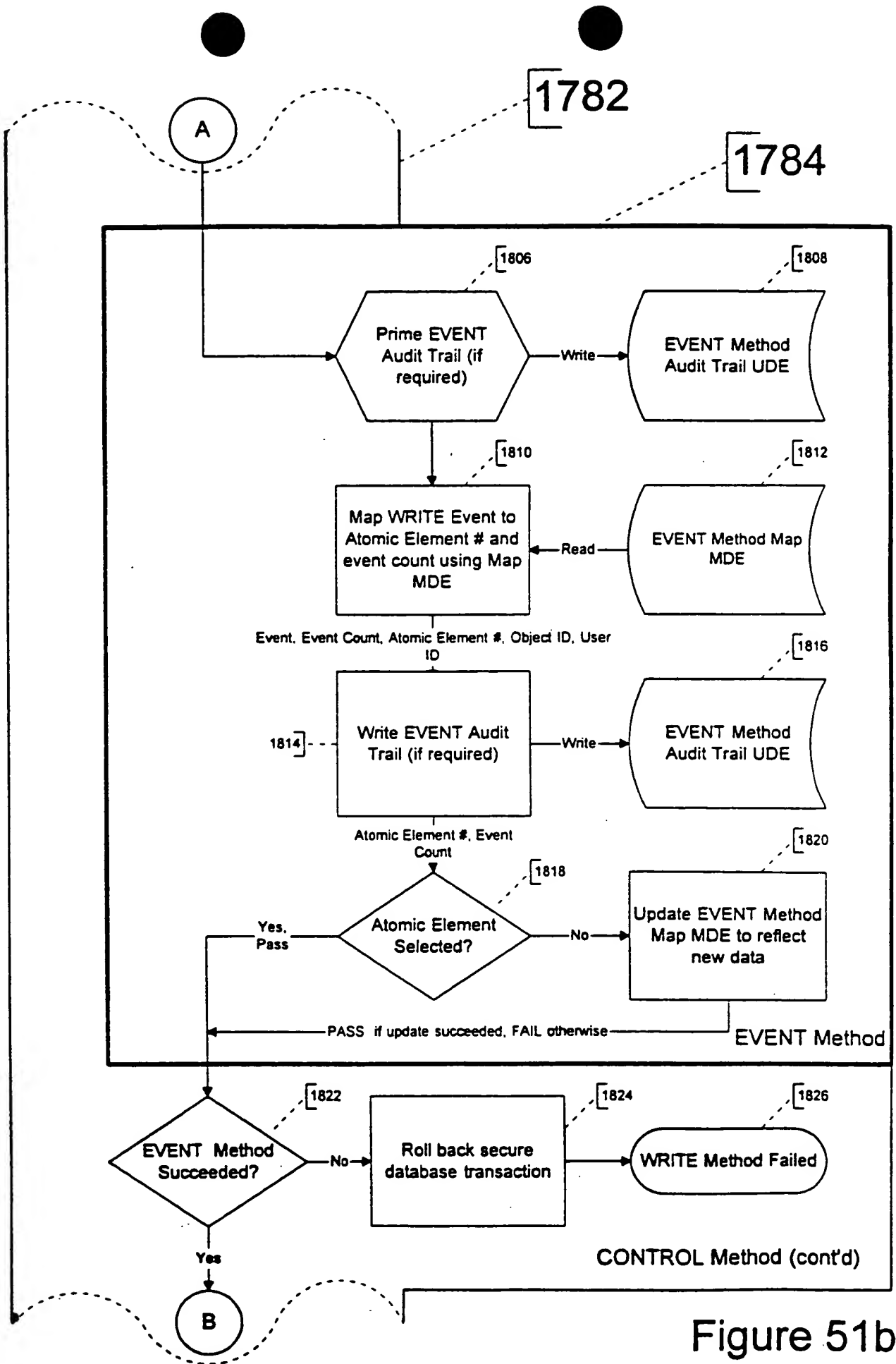


Figure 51b

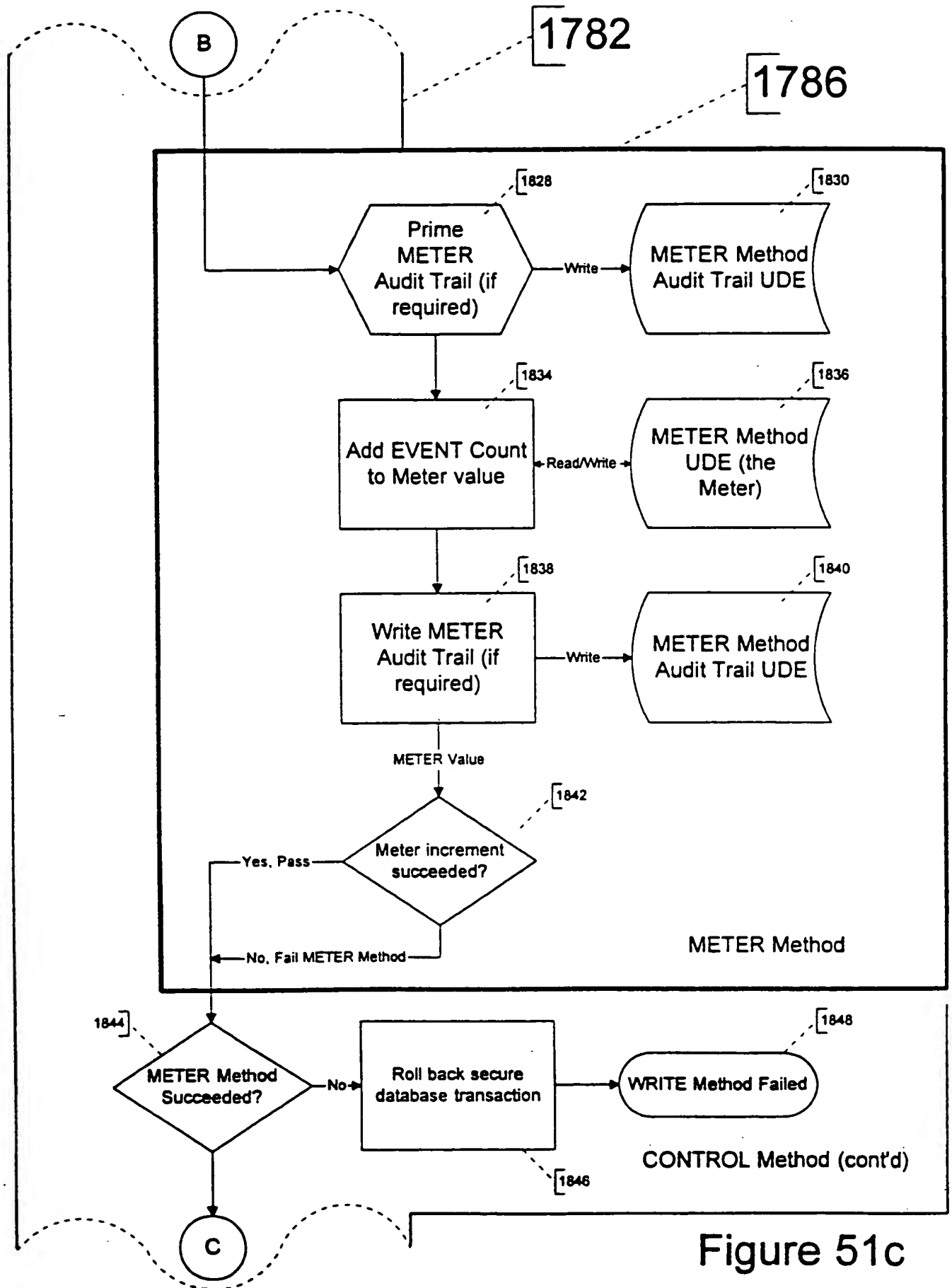


Figure 51c

004020 " 77152E960

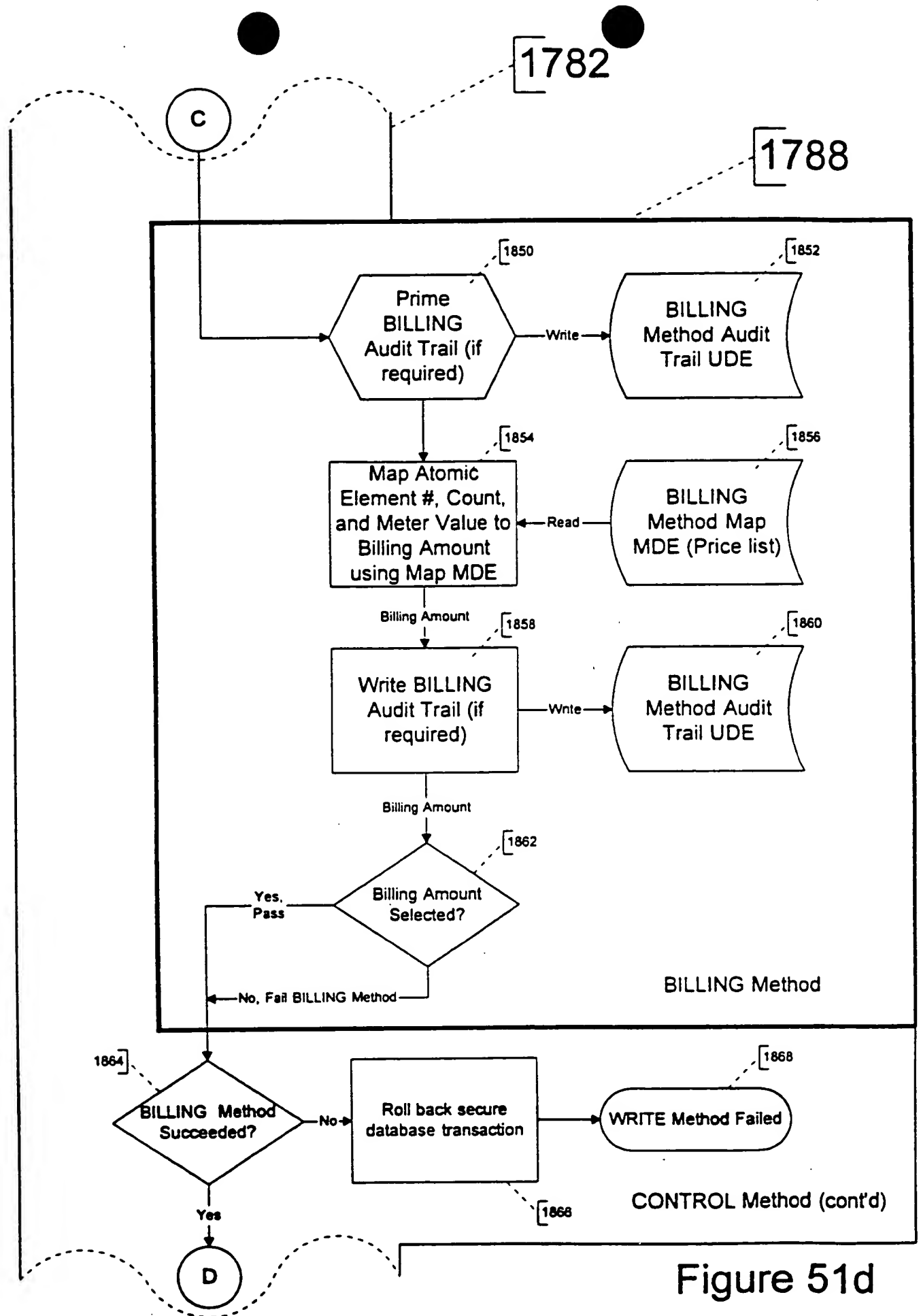


Figure 51d

004030" 4462E960

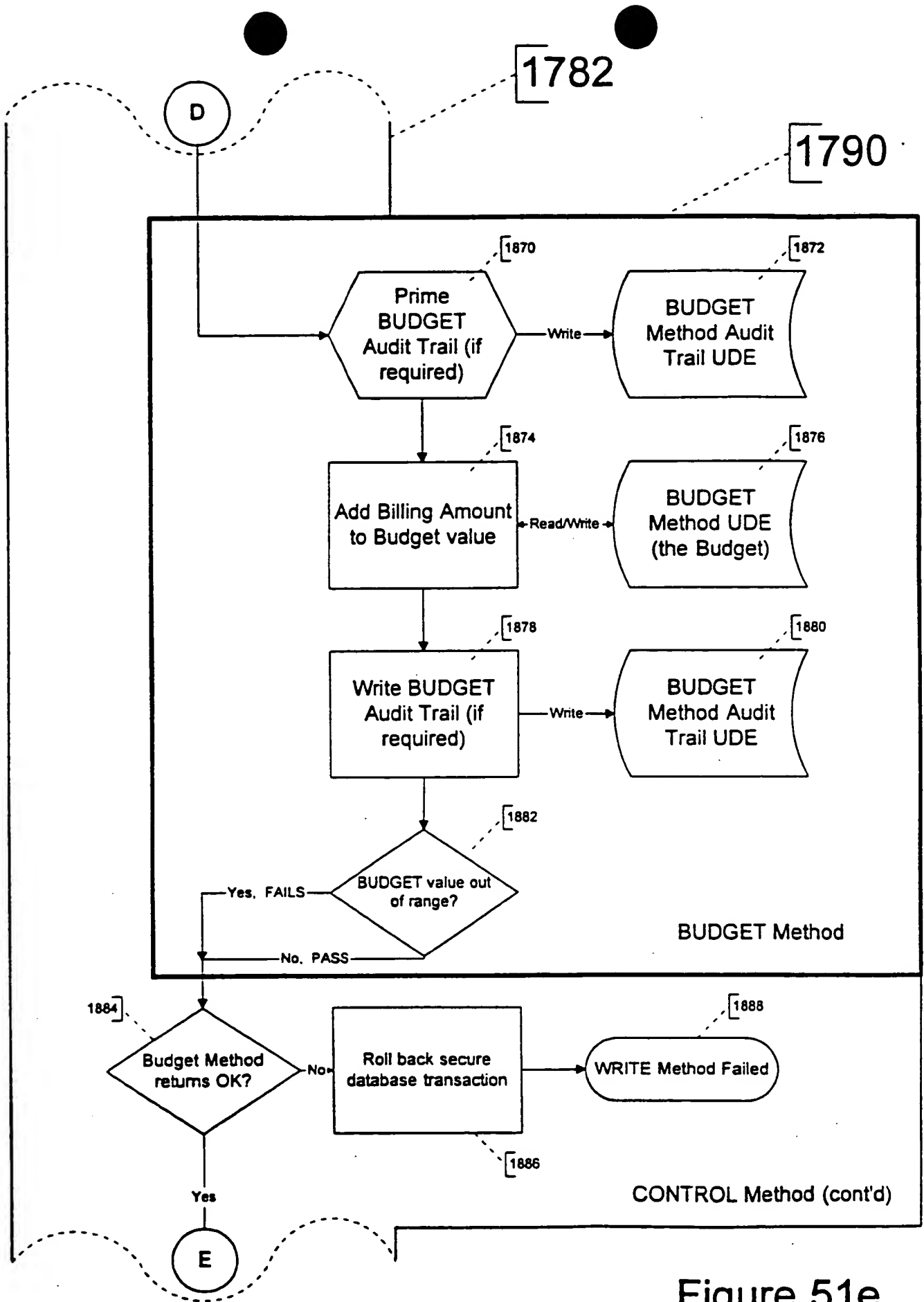


Figure 51e

004030" 44152E960

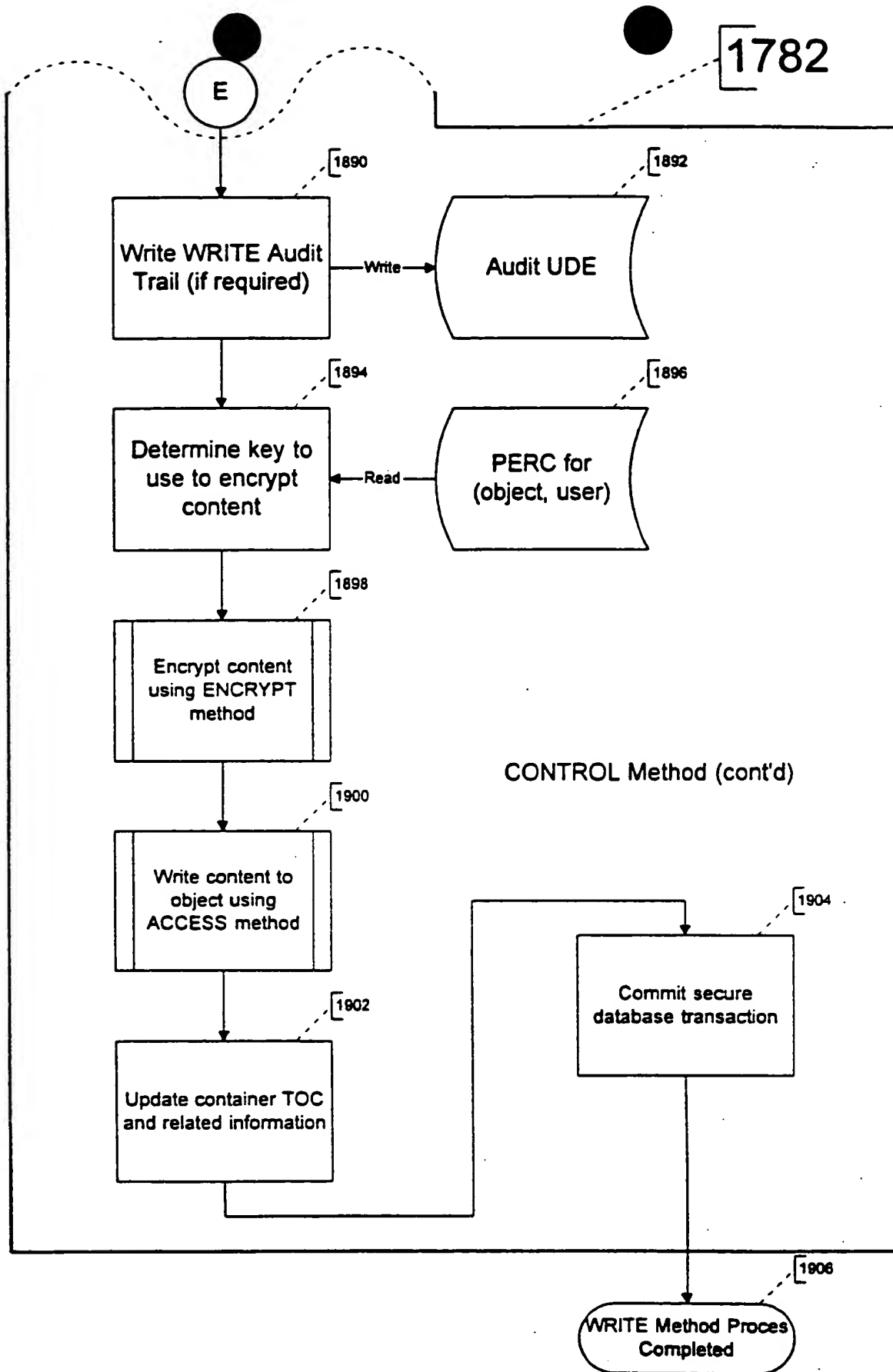
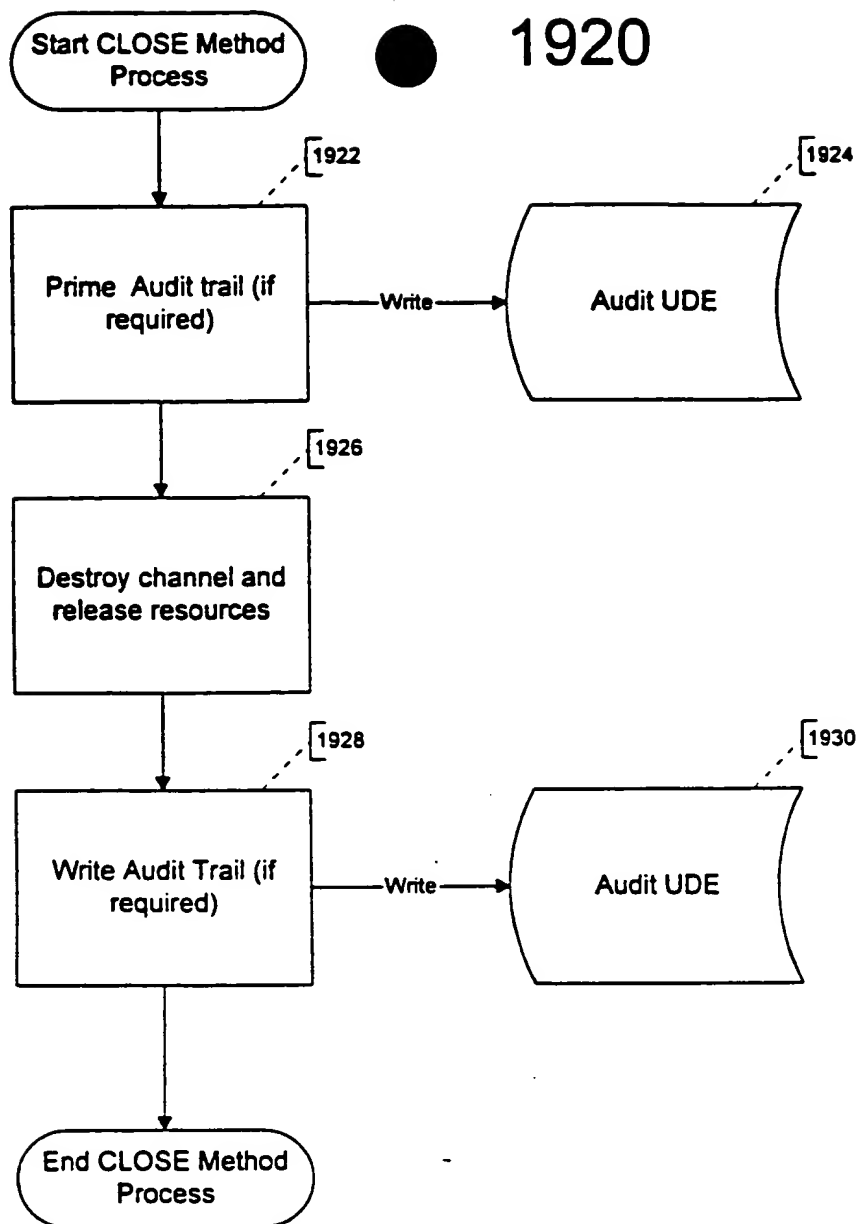


Figure 51f

004030-4452E960



## CLOSE Method Process Flow

Figure 52



### Figure 53a

# Sample EVENT Method Mapping Process

004030-1162960

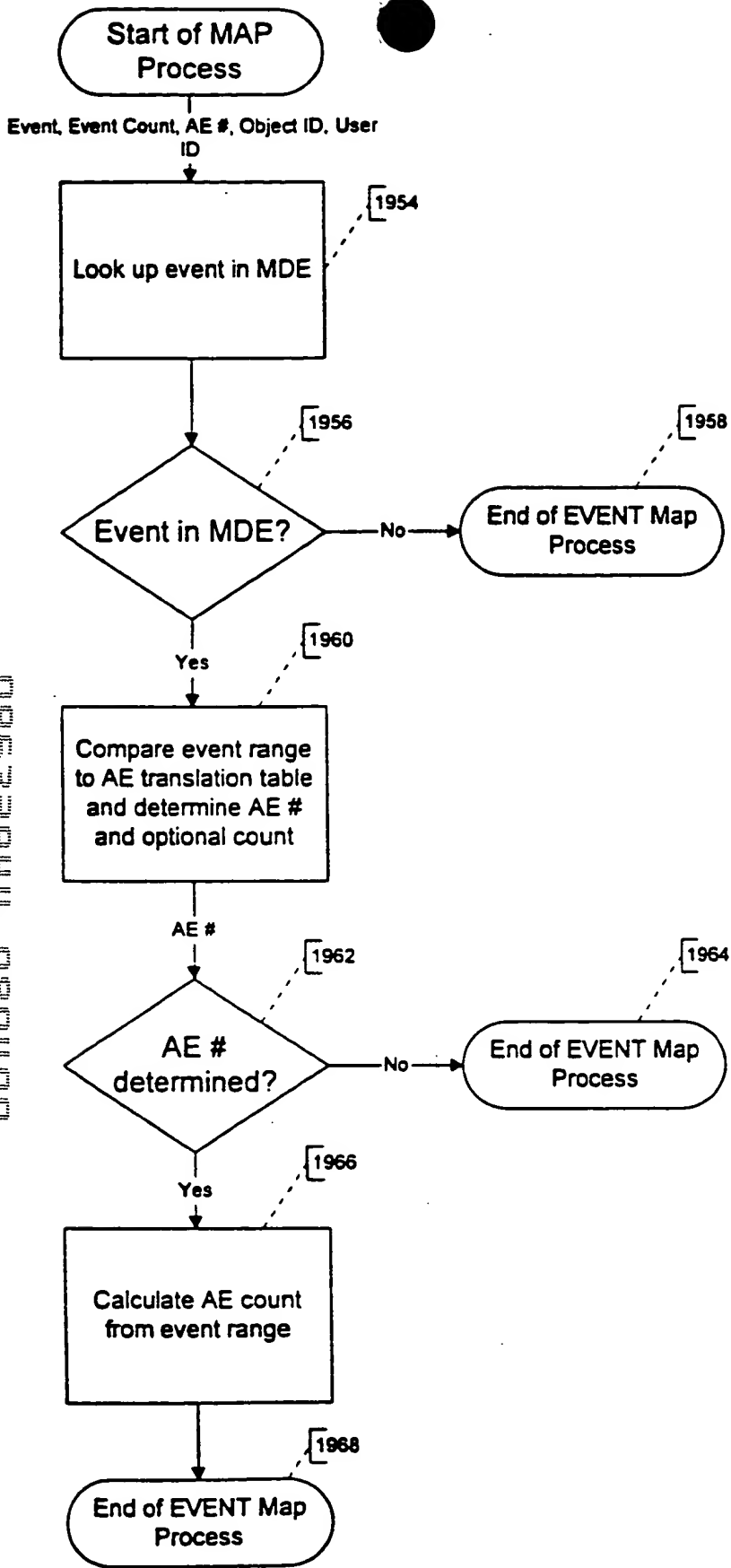
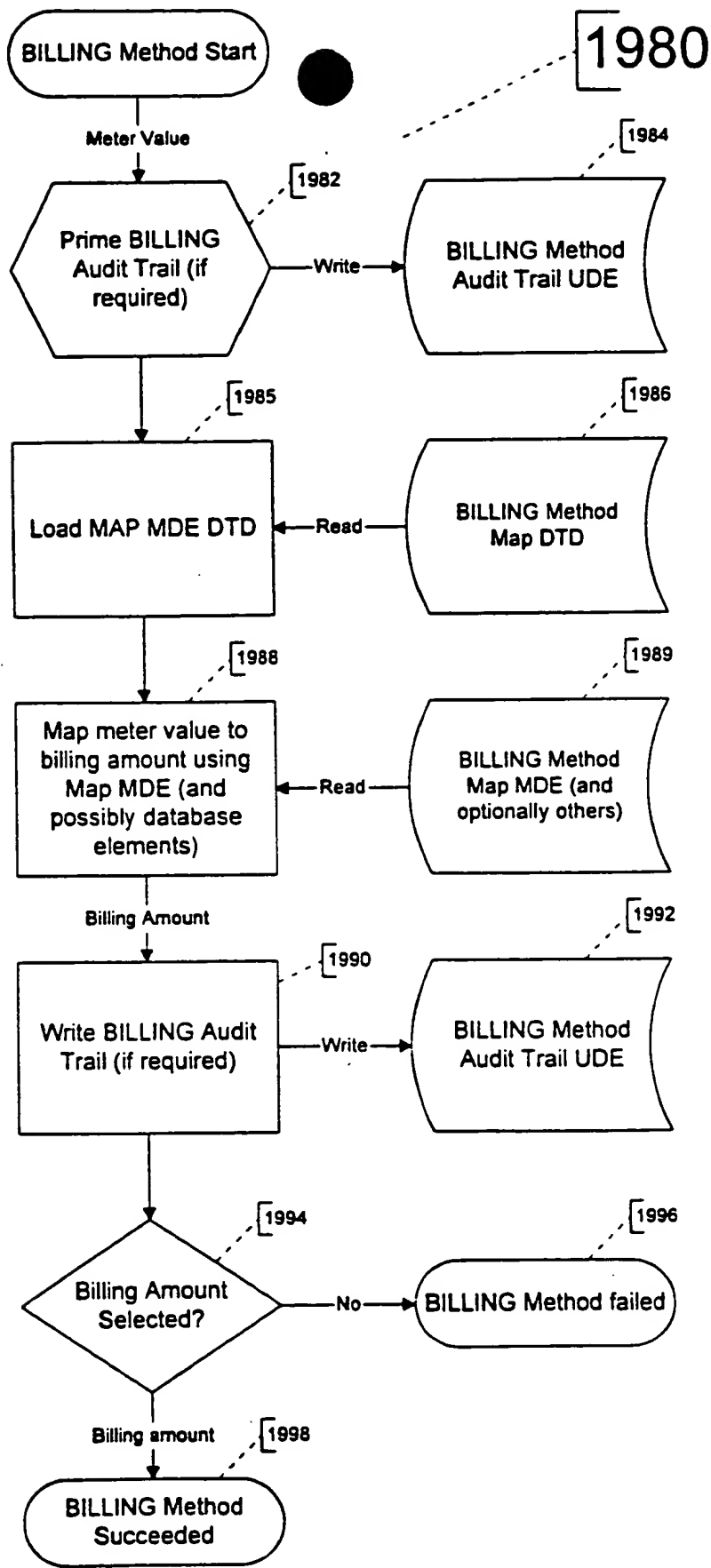


Figure 53b



004080" 111522960



# BILLING Method Process Flows

Figure 53c

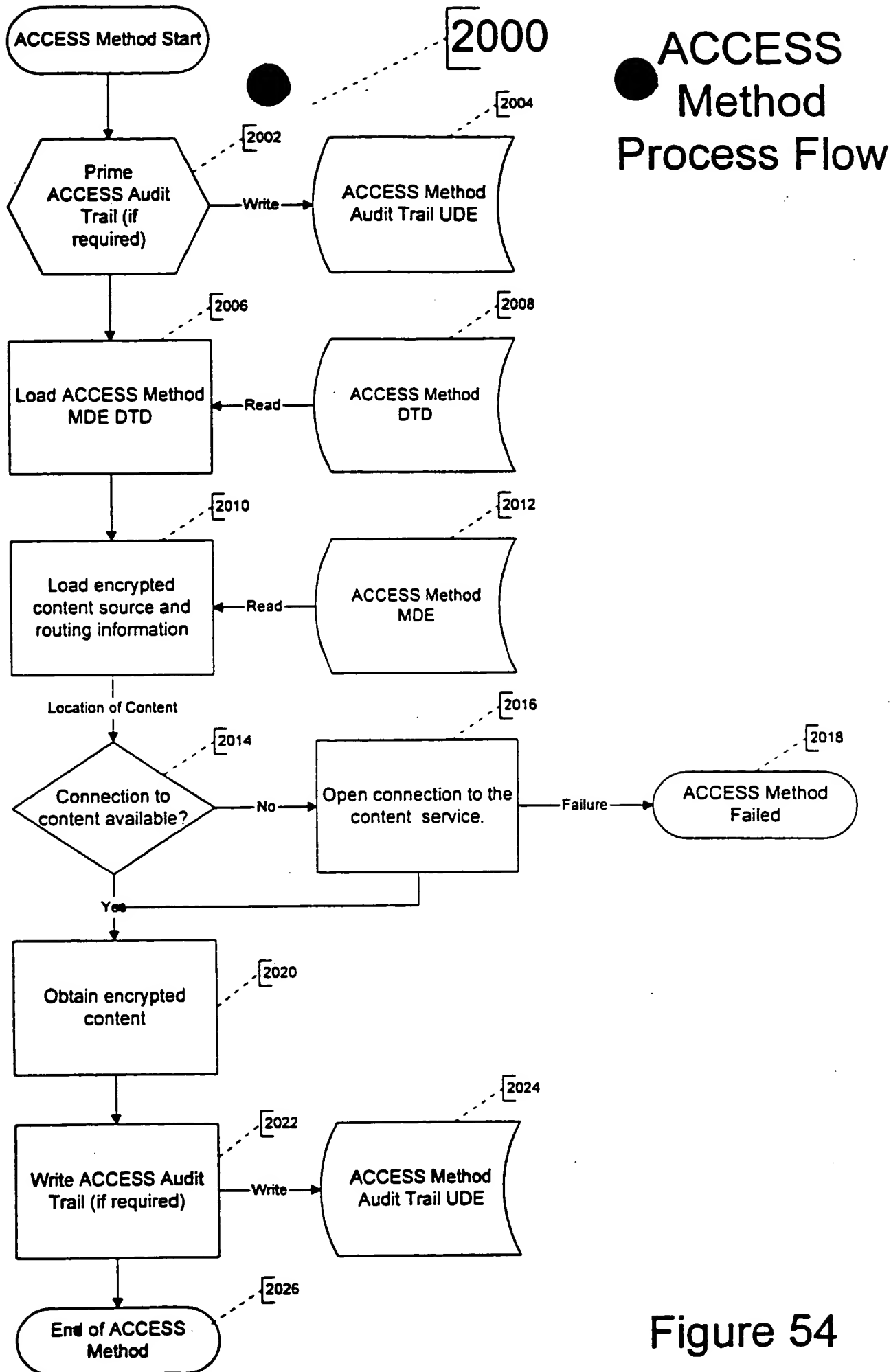


Figure 54

# DECRYPT Method Process Flow

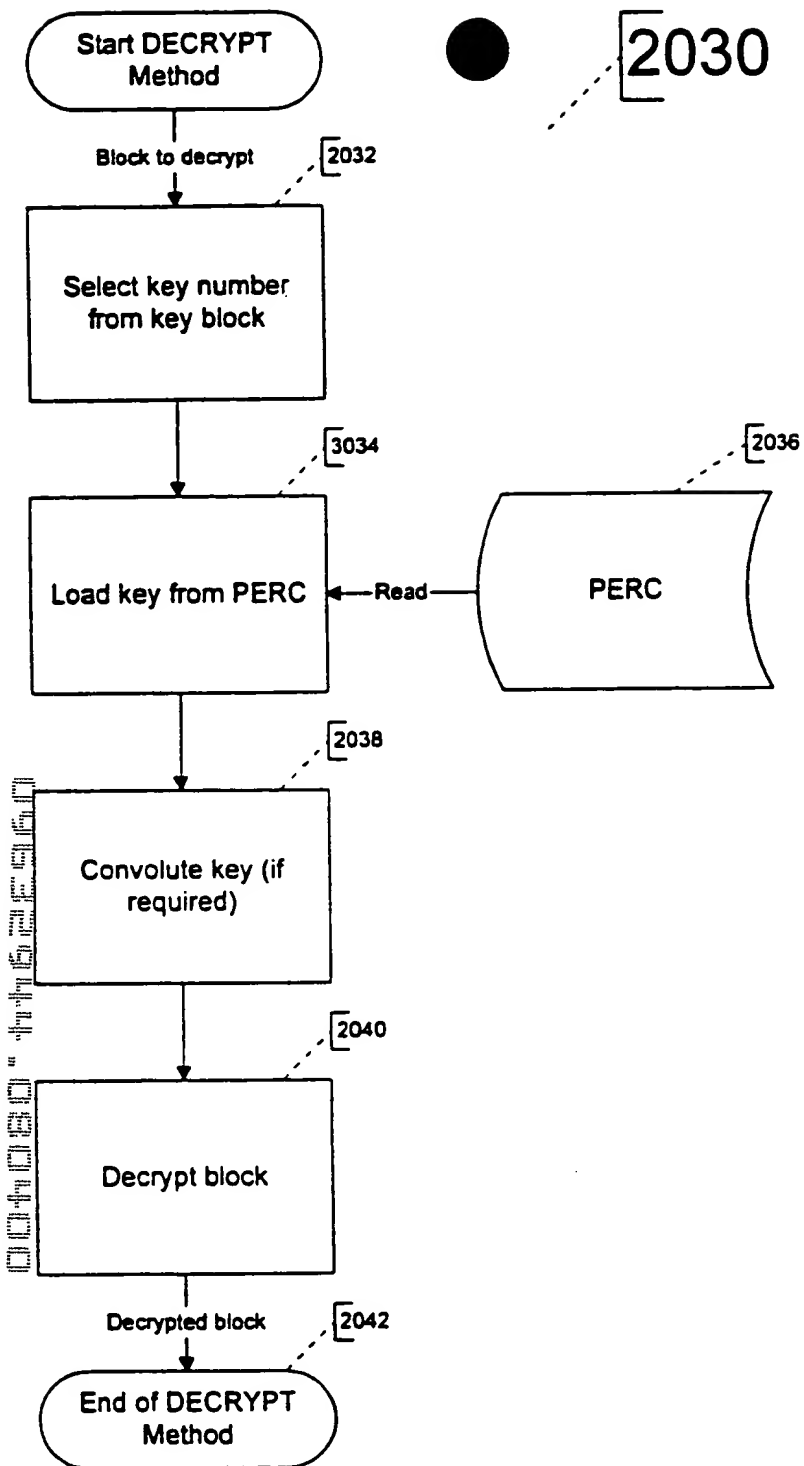


Figure 55a

# ENCRYPT Method Process Flow

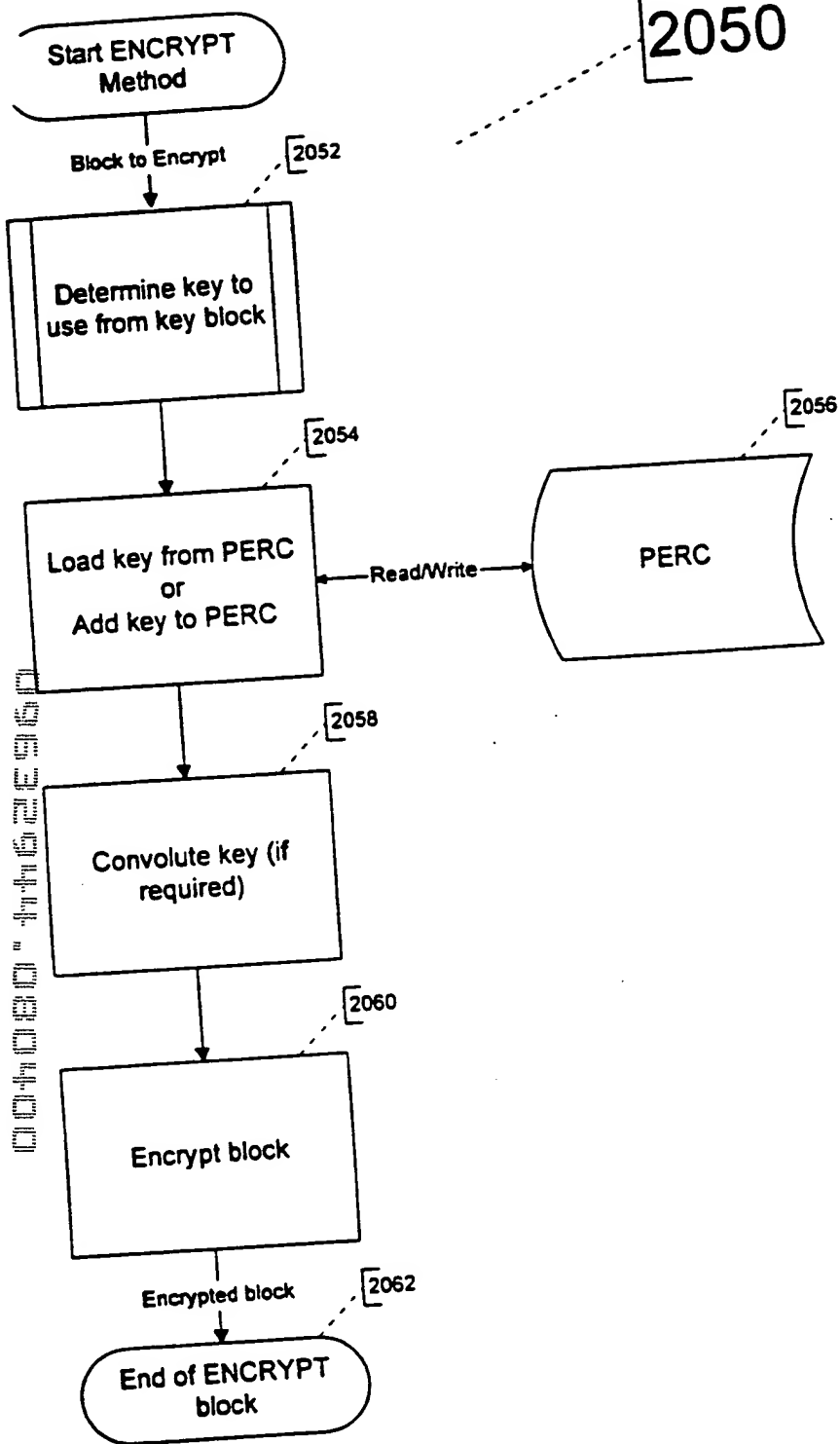


Figure 55b

# CONTENT Method Process Flow

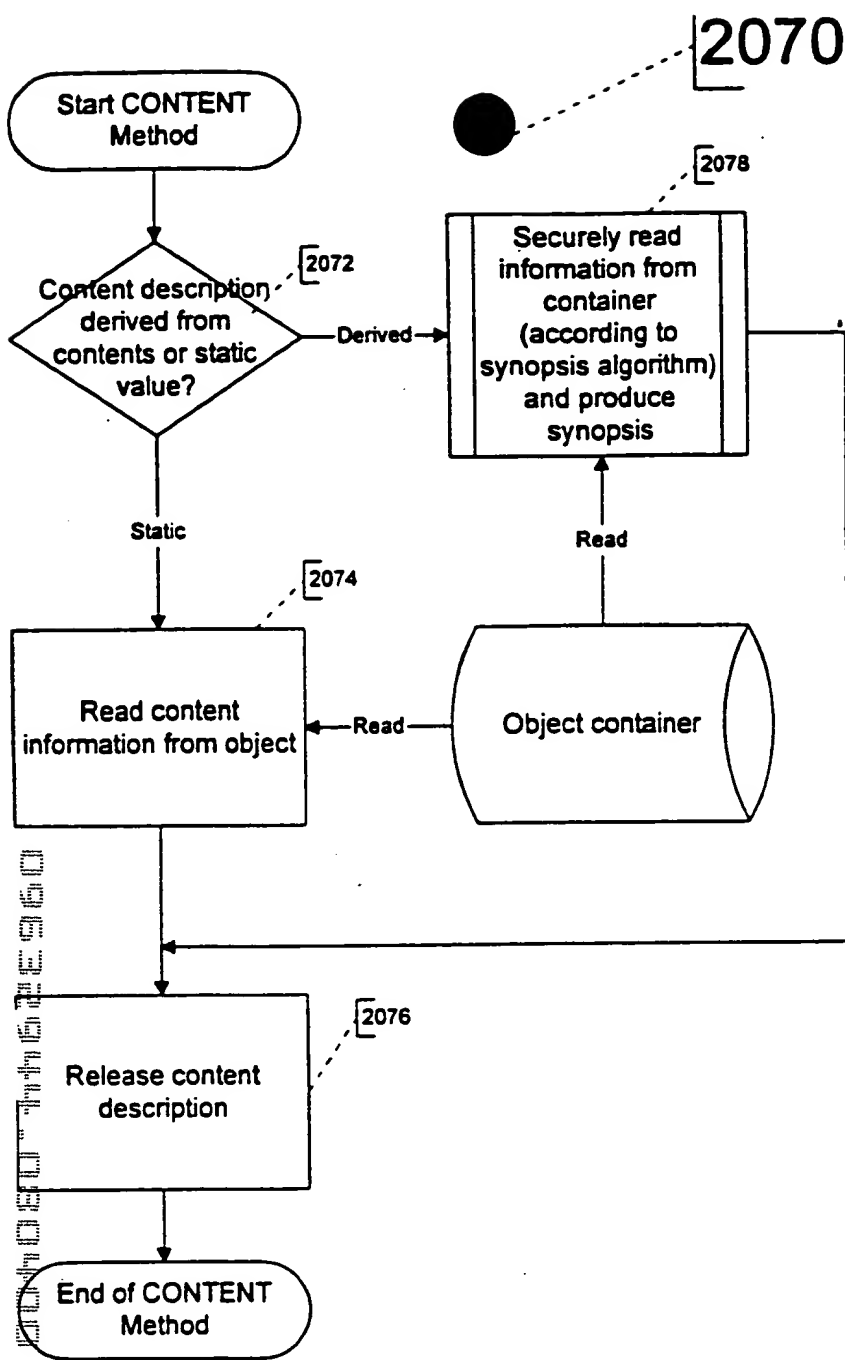


Figure 56

# EXTRACT Method Process Flow

004030-1152E960

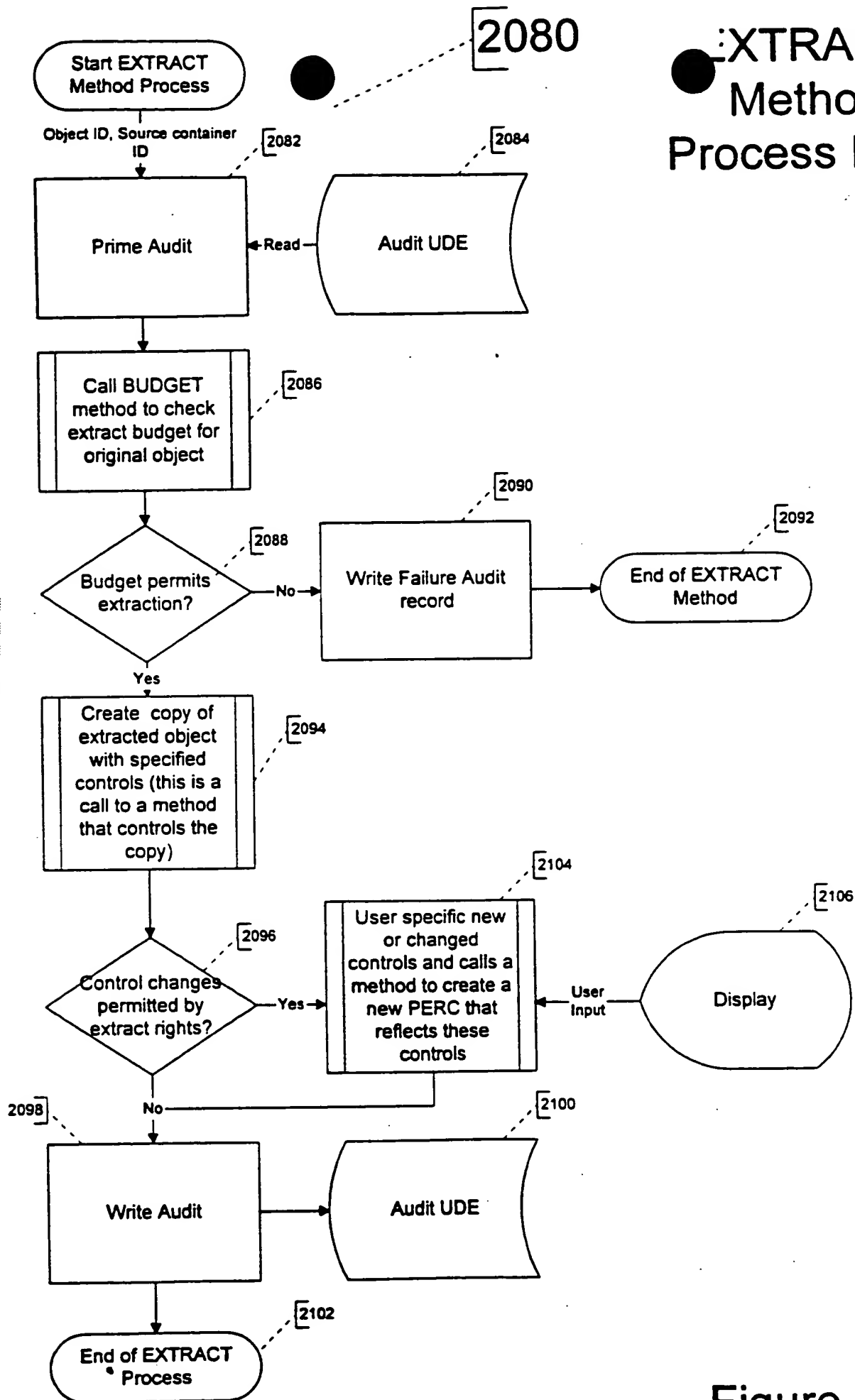


Figure 57a

2110

# EMBED Method Process Flow

004030-1162E960

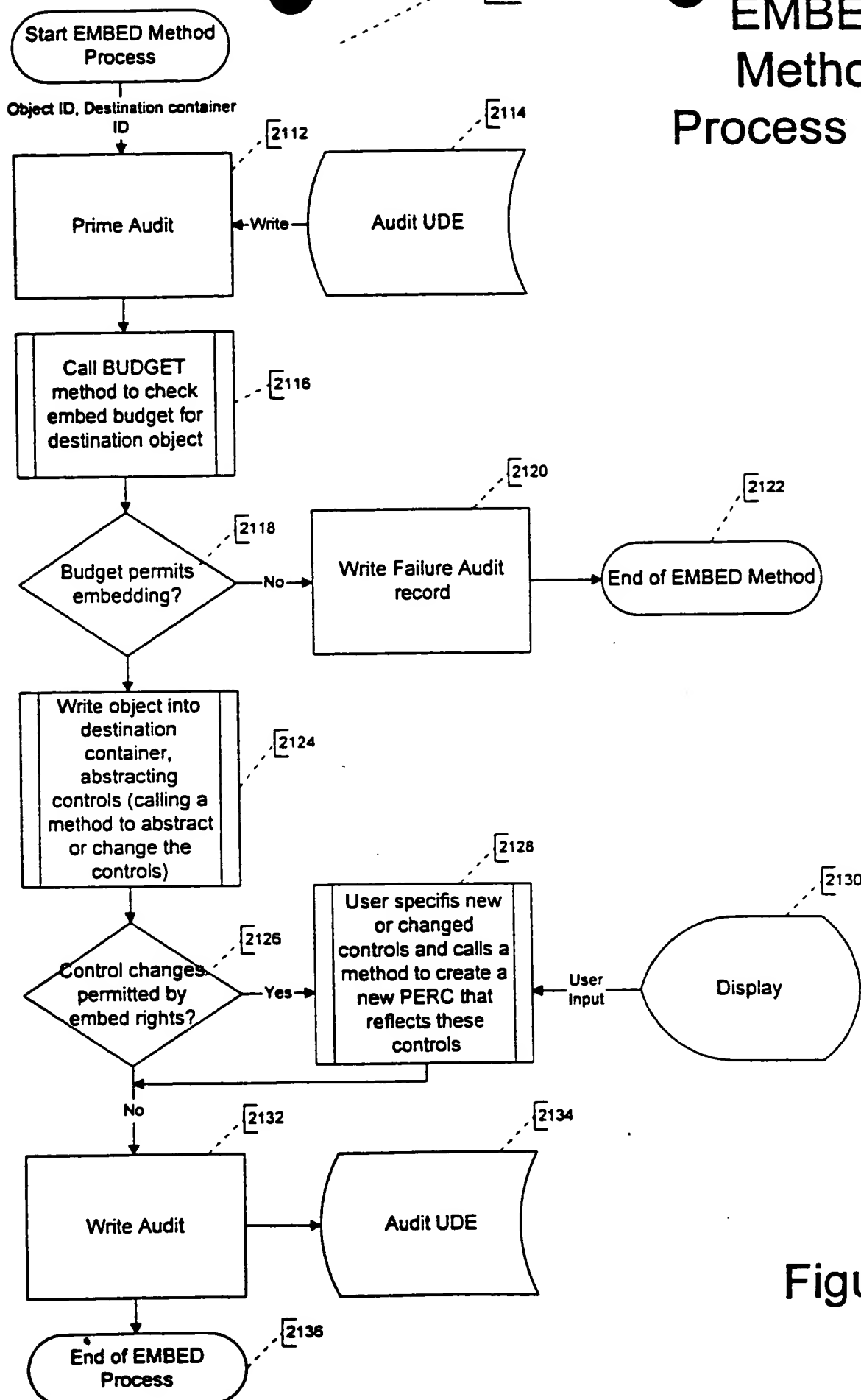
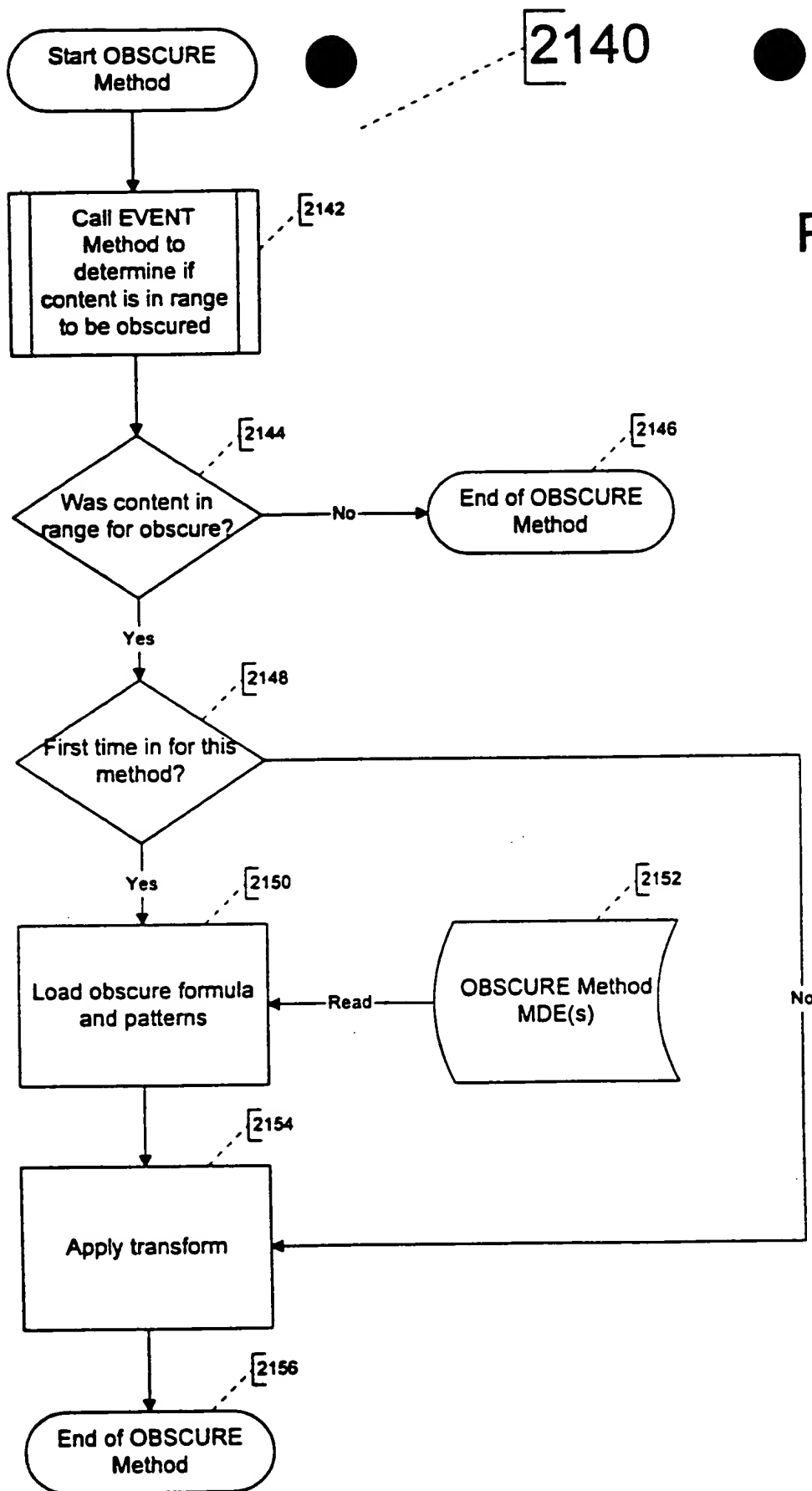


Figure 57b

004080-1162E960



# OBSCURE Method Process Flow

Figure 58a



2160

# FINGERPRINT Method Process Flow

004030-44522960

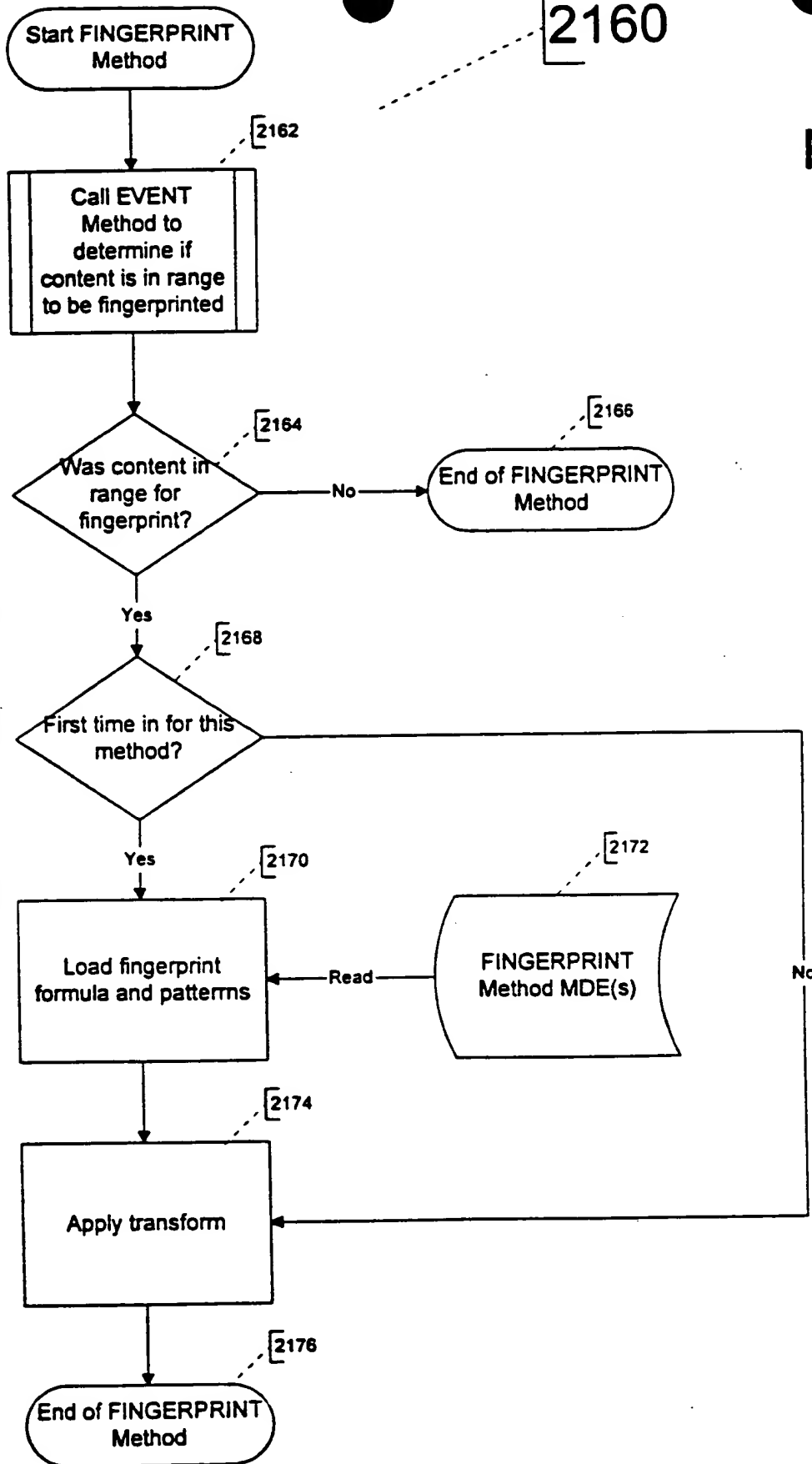


Figure 58b

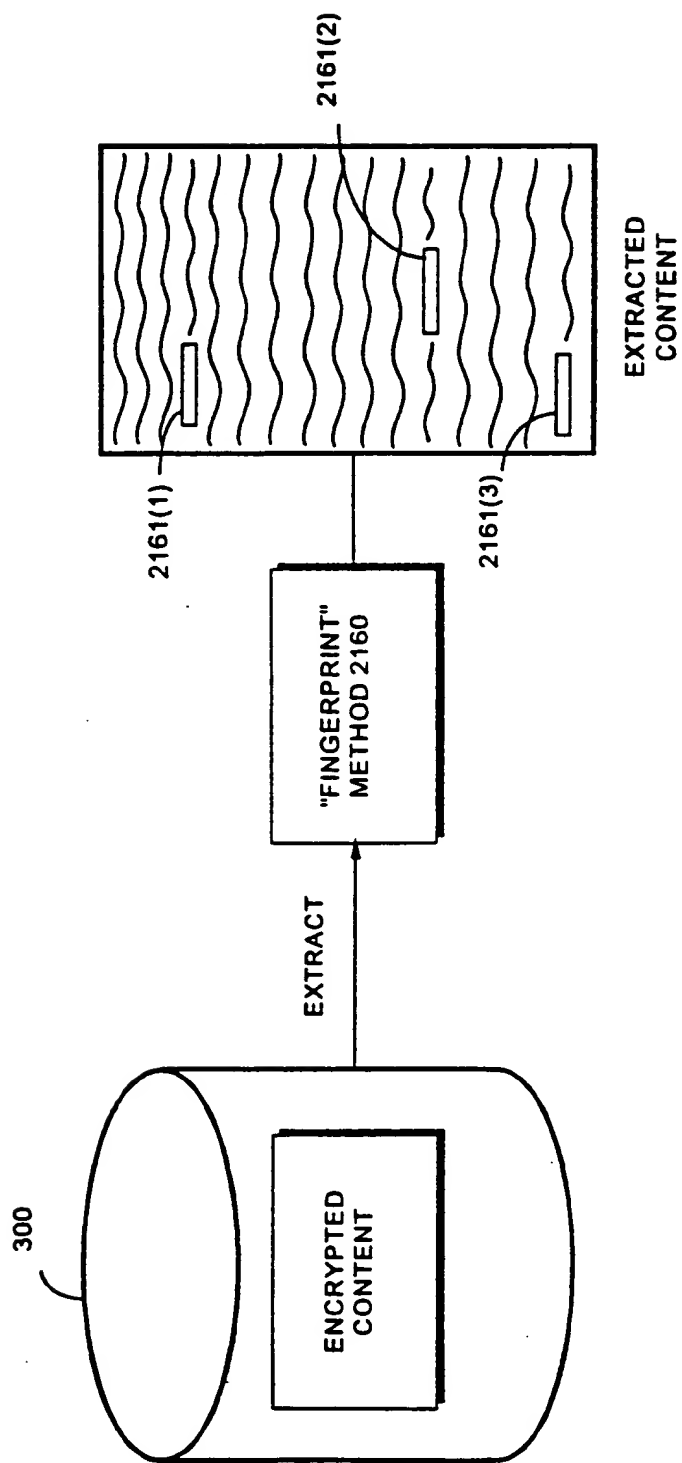
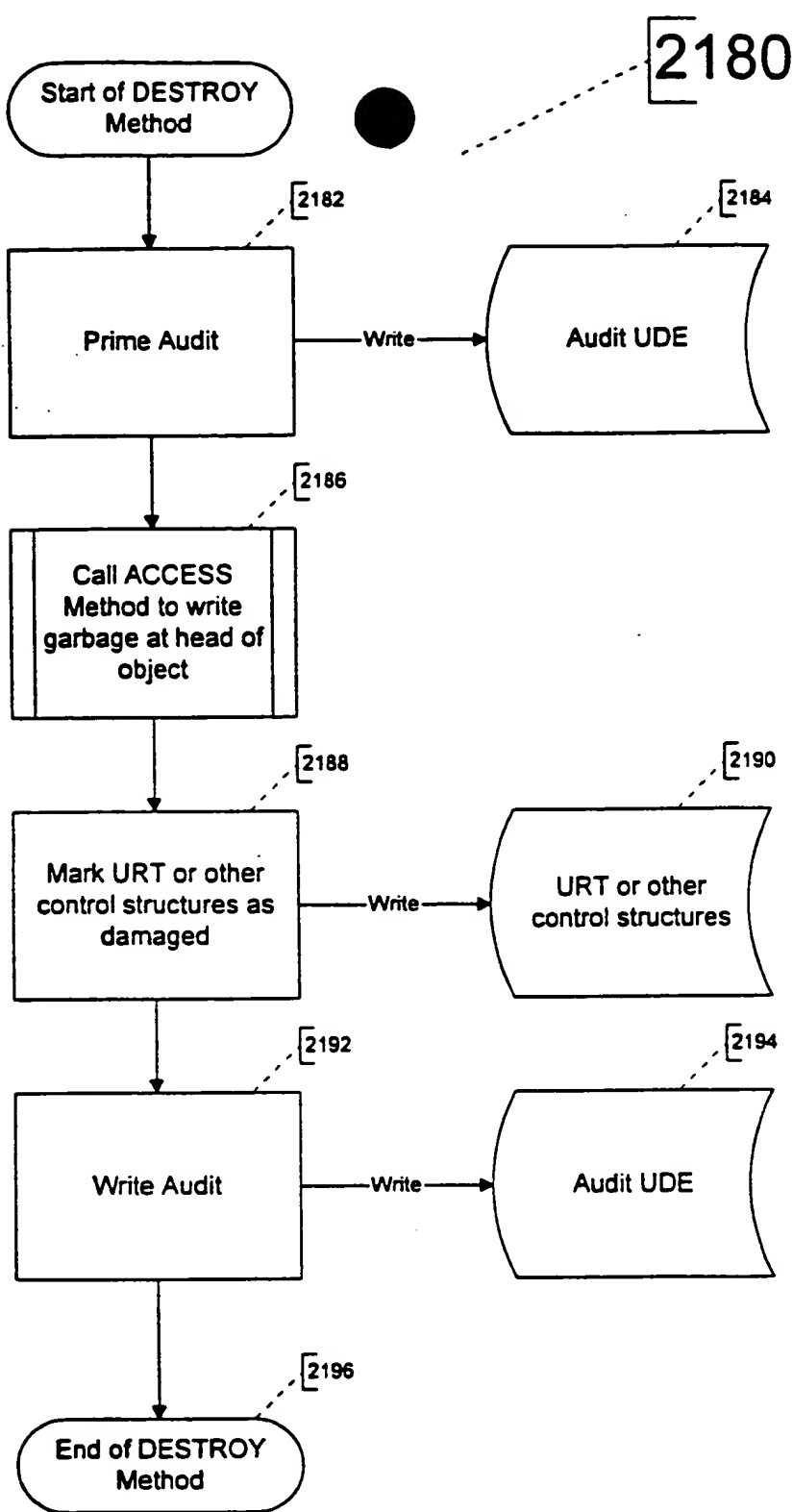


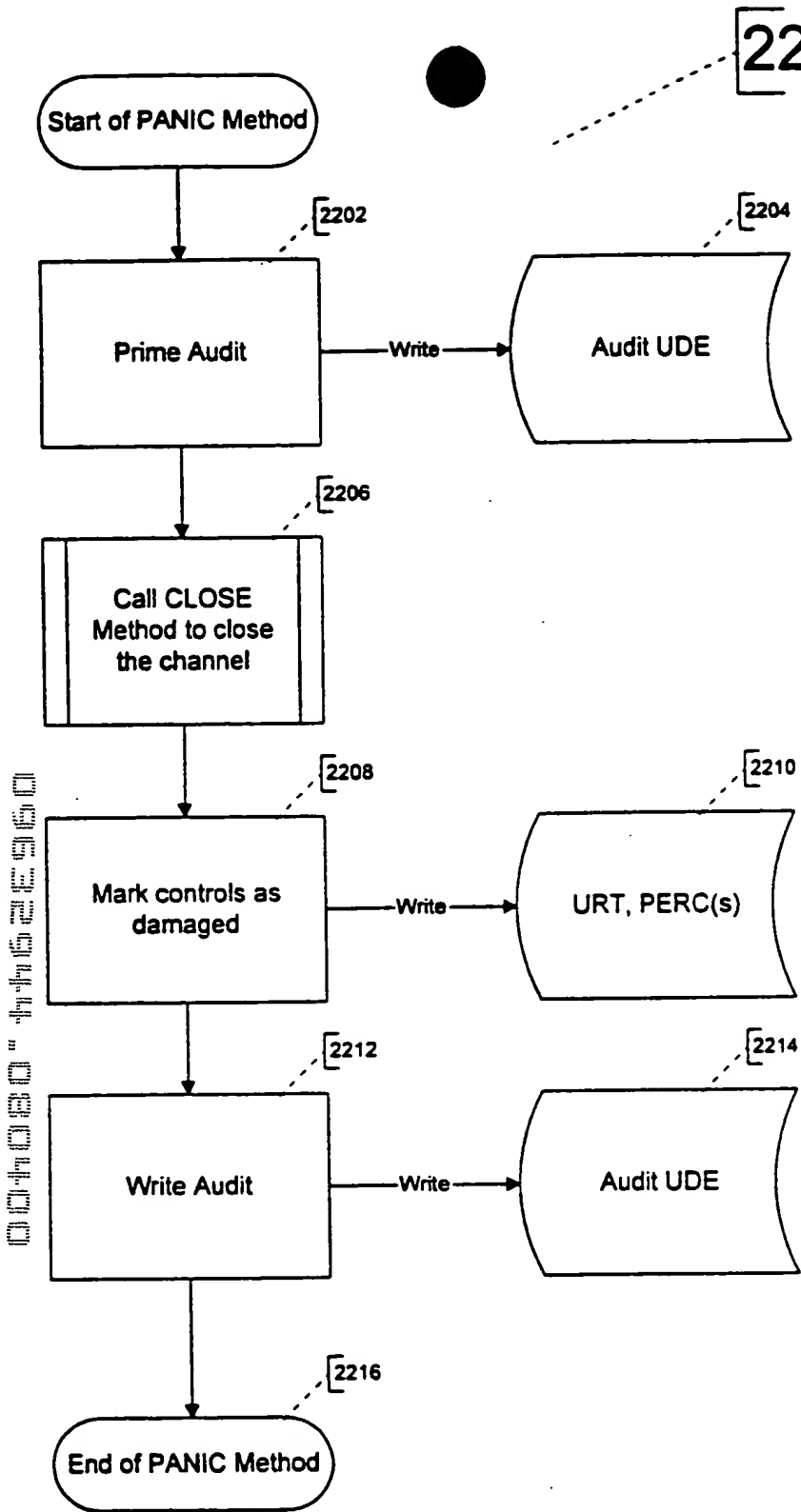
FIG. 58C

004080" 11162E960



# DESTROY Method Process Flow

Figure 59

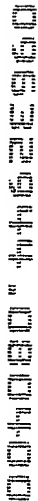


2200

# PANIC Method Process Flow

Figure 60

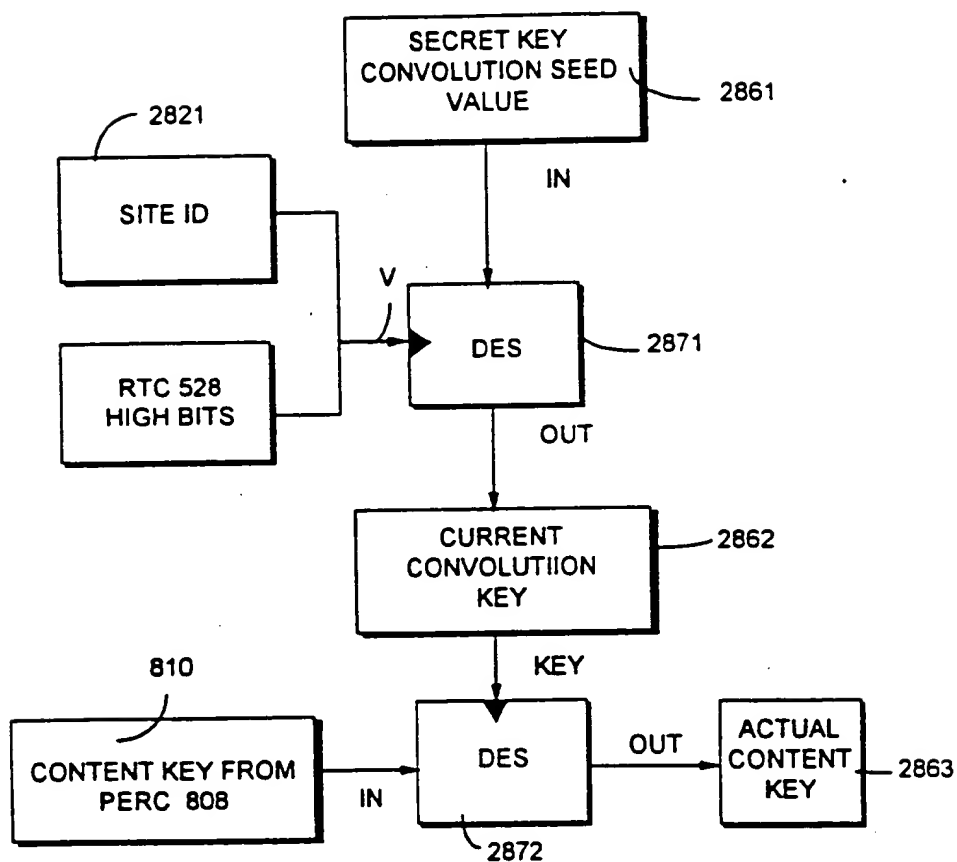
2220

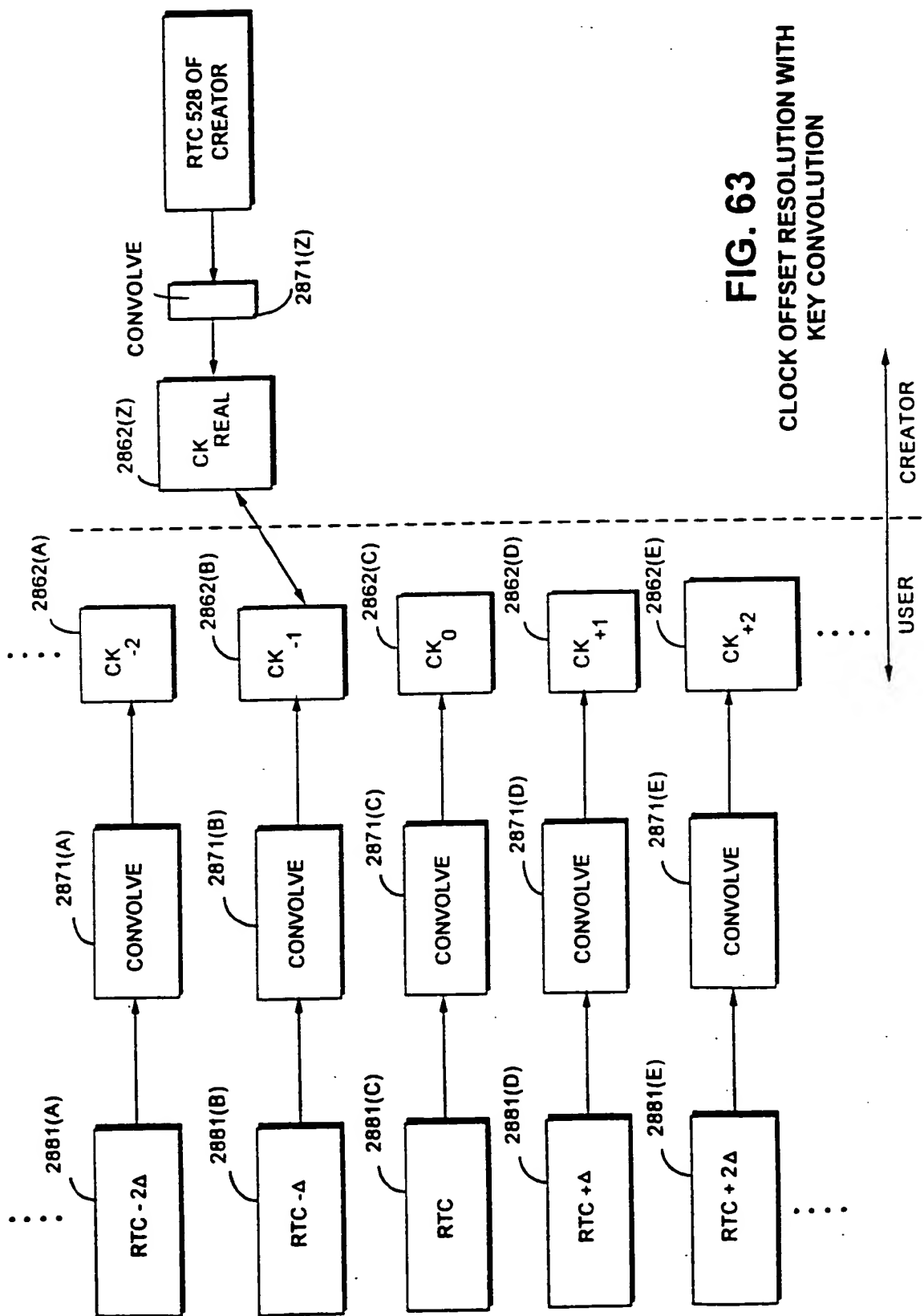


### Figure 61

004030-1162E960

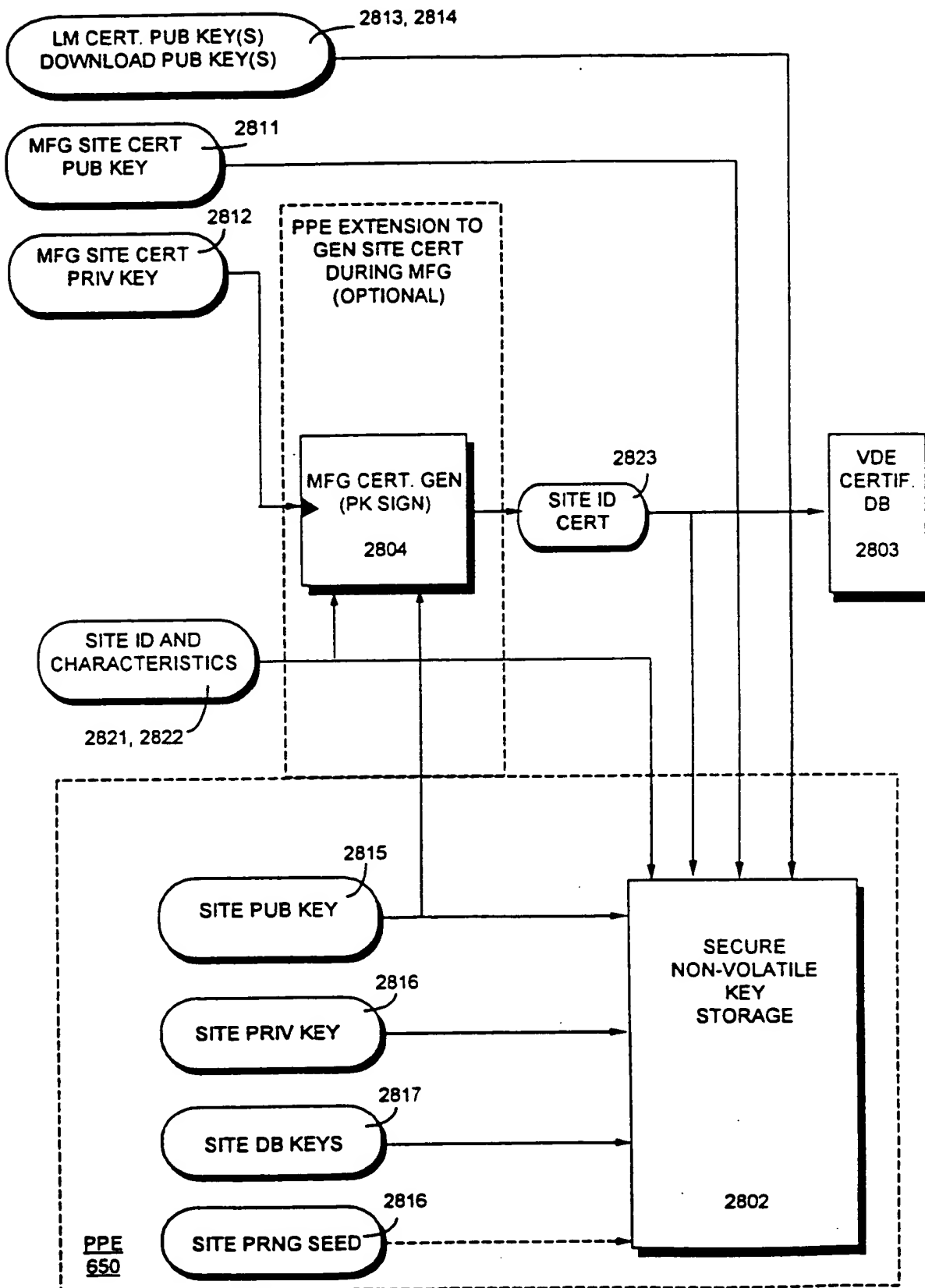
**FIG. 62**  
**KEY CONVOLUTION PROCESS**





**FIG. 63**  
**CLOCK OFFSET RESOLUTION WITH**  
**KEY CONVOLUTION**

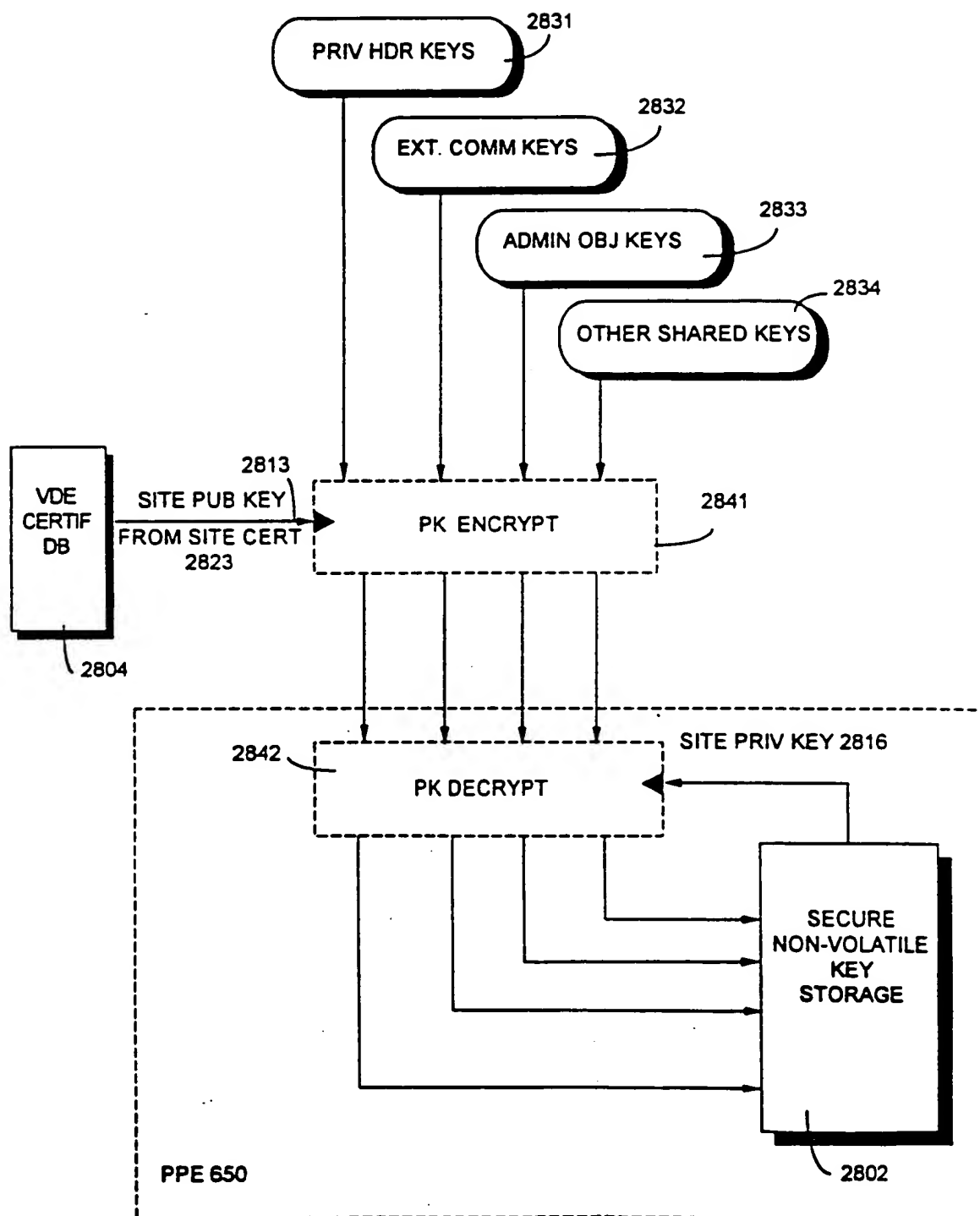
**FIG. 64** SPU KEY INITIALIZATION/INSTALLATION



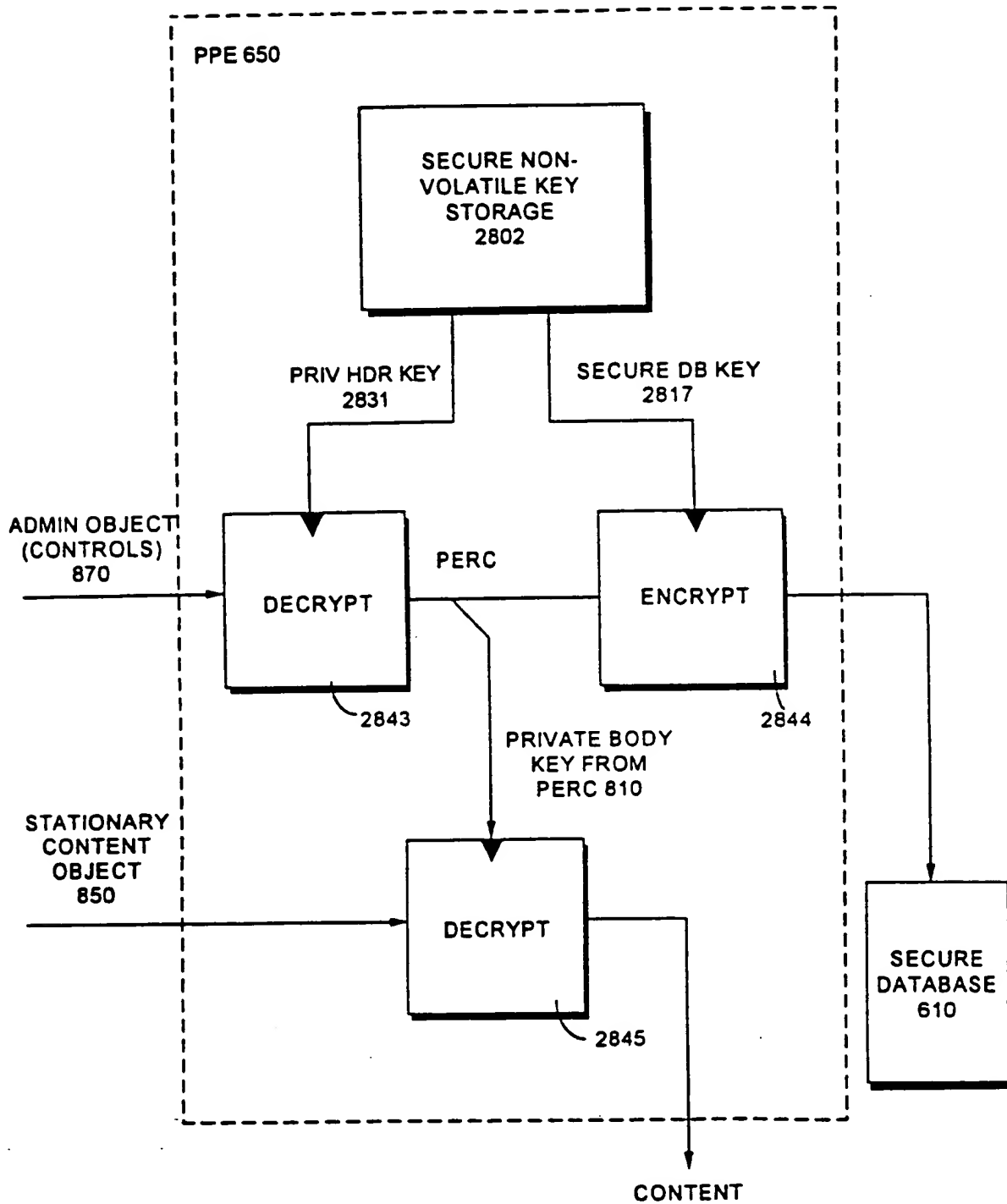
004030" 1162E960



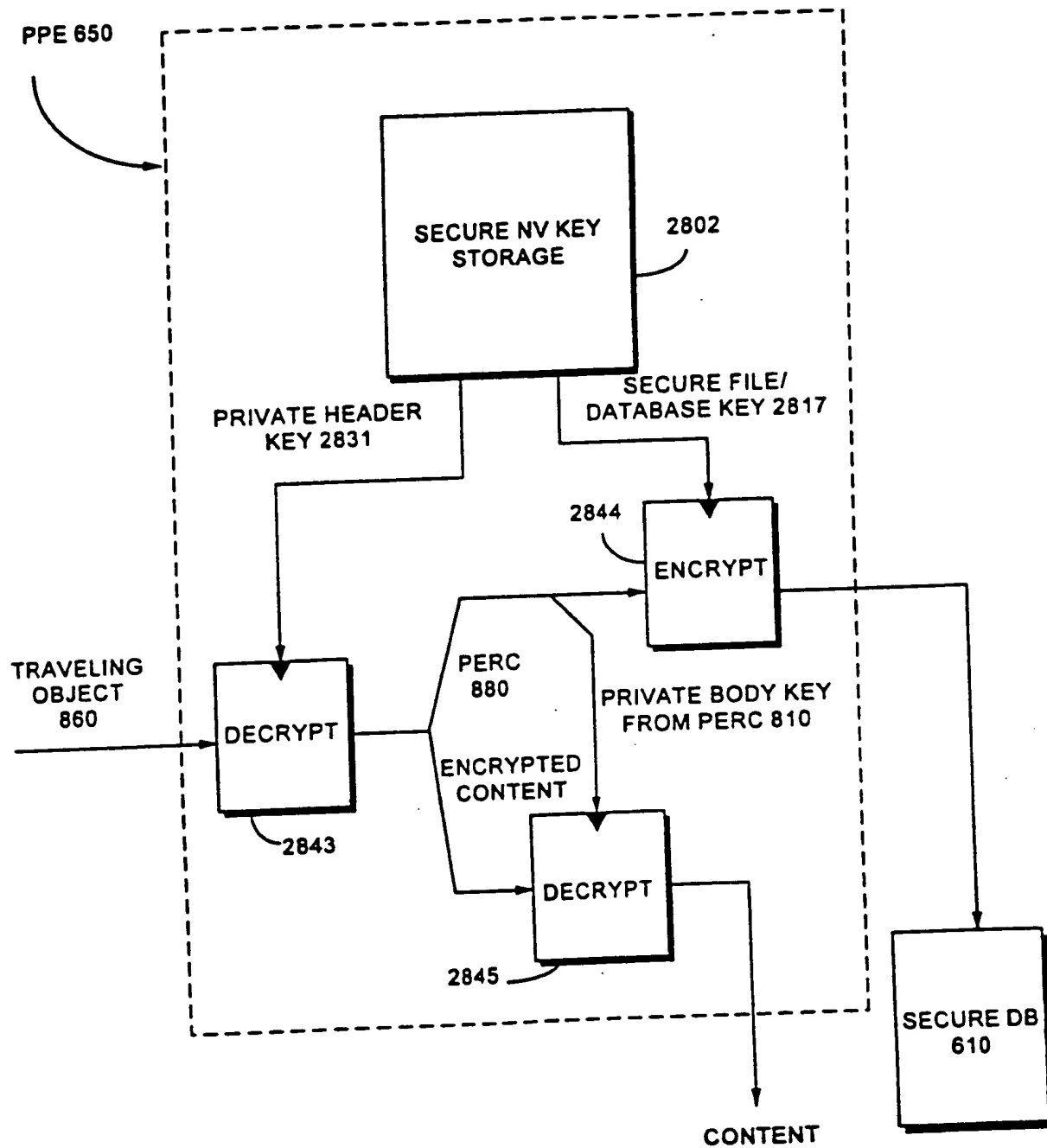
**FIG. 65** KEY INSTALLATION & UPDATE



001080-11622960

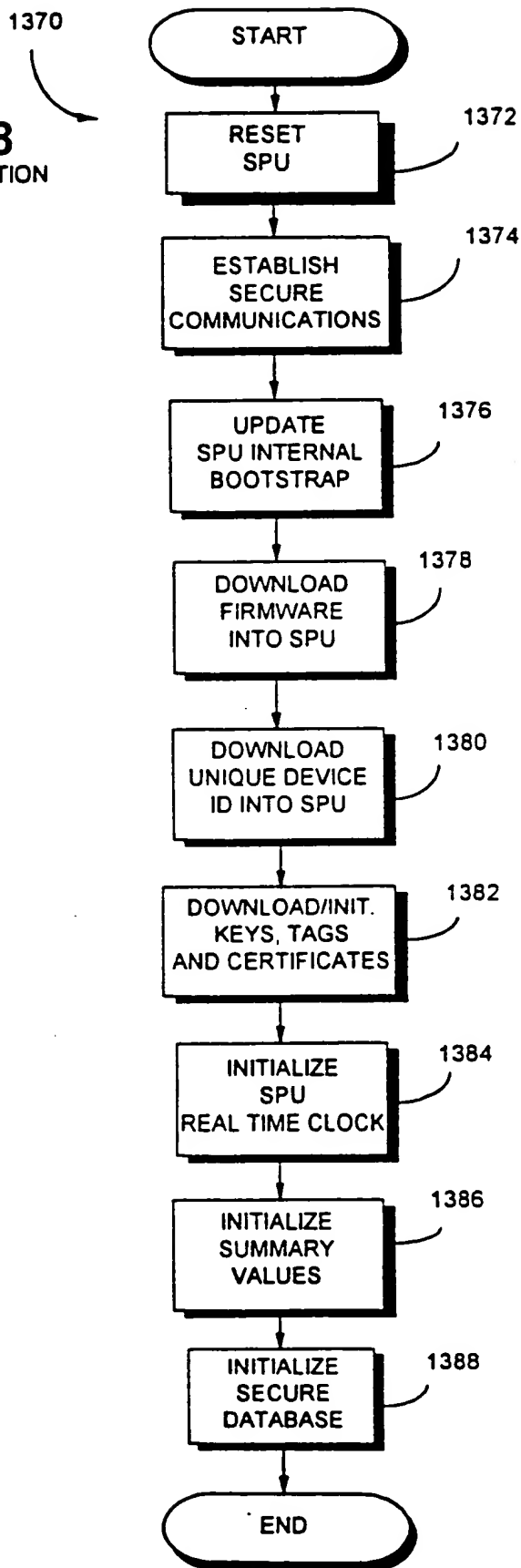


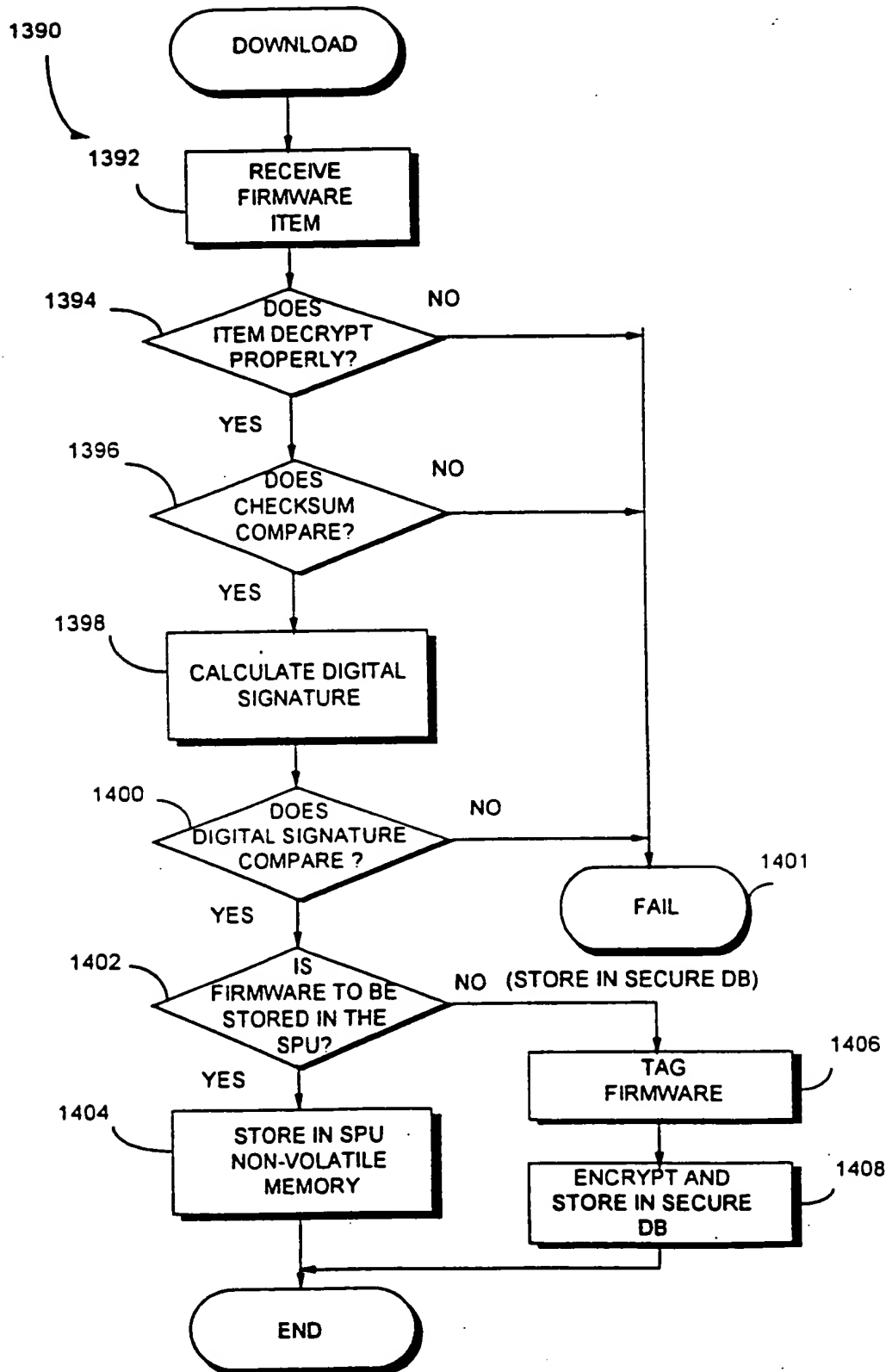
**FIG. 66** STATIONARY OBJECT DECRYPTION



**FIG. 67 TRAVELING OBJECT DECRYPTION**

**FIG. 68**  
SPU INITIALIZATION





**FIG. 69**

SPU FIRMWARE  
DOWNLOAD

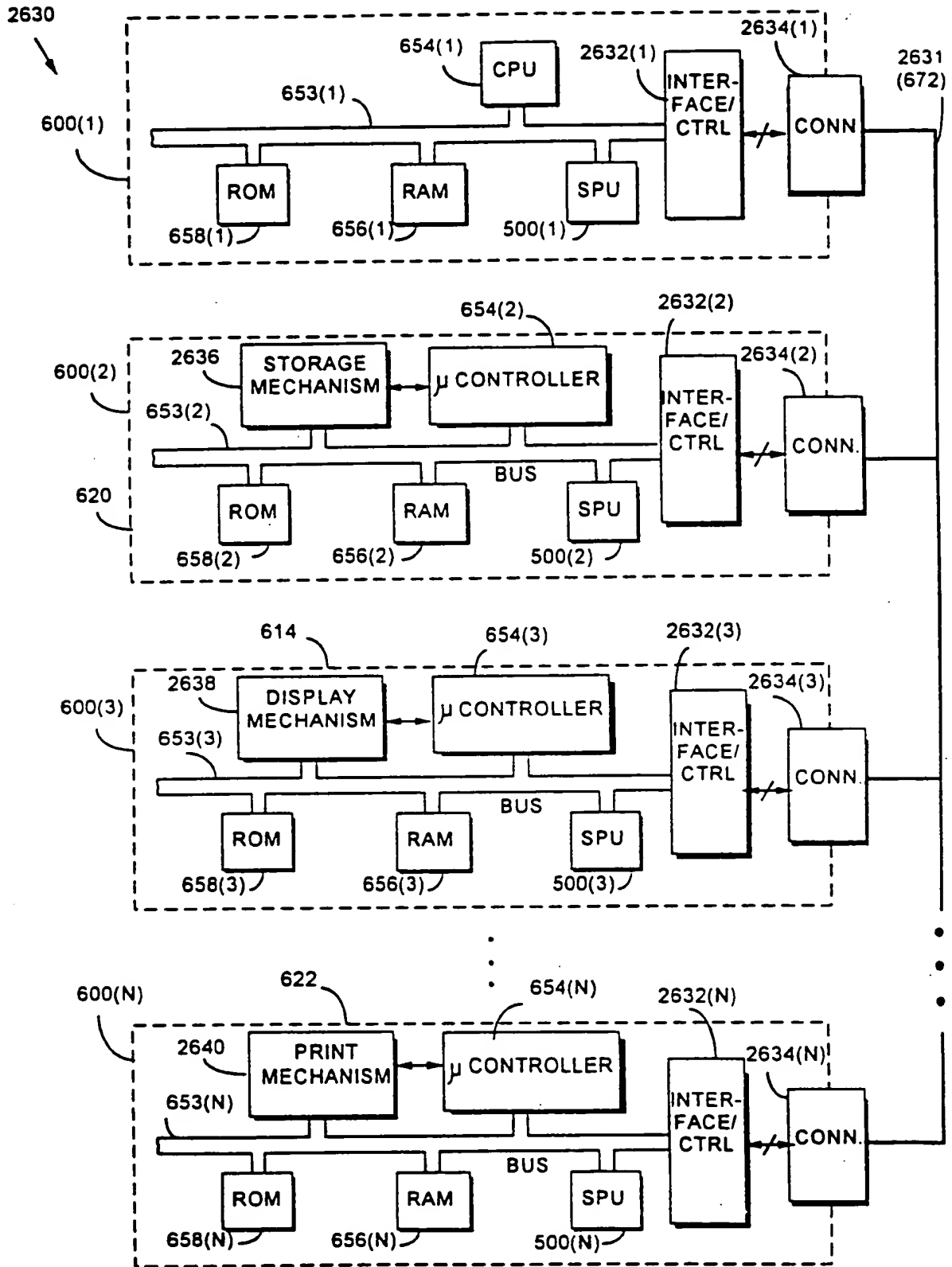
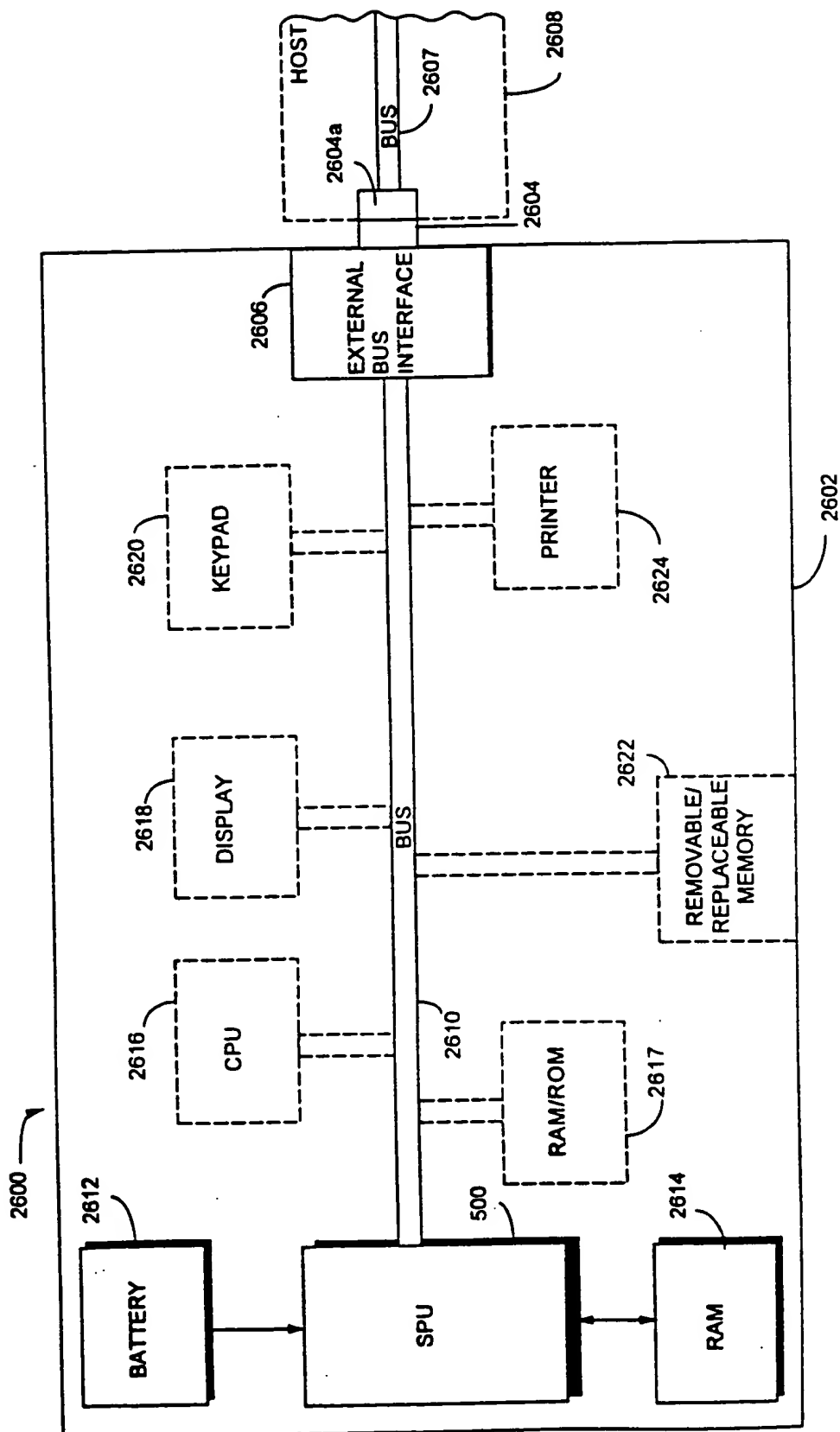


FIG. 70

**FIG. 71**

## PORTABLE APPLIANCE



LOG IN USER INTERFACE

182

A login interface window with a title bar. It contains three input fields: 'USER NAME:' with the text 'SHEAR, V.', 'PASSWORD:' with five asterisks, and a checkbox labeled 'LOGIN AT STARTUP'. To the right of these fields are three buttons: 'LOGIN', 'CANCEL', and 'HELP'.

FIG. 72A

FIG. 72B

A confirmation window titled 'YOU HAVE REQUESTED THESE PROPERTIES:'. It features a warning icon (triangle with an exclamation mark) on the left. The main text is 'LOONEY TUNES NEWS!'. Below this, there is a 'PROPERTY INFO' button, the text 'Your Cost: \$7.50', and a 'MORE OPTIONS' button with a right-pointing arrow. On the right side, there are three buttons: 'CANCEL', 'APPROVE', and 'SUSPEND'.

2660

2662

2664



FIG. 72C

**SET LIMITS:**

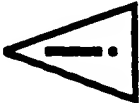
SESSION DOLLAR LIMIT: \$

TRANSACTION DOLLAR LIMIT: \$

TIME LIMIT (IN MINUTES):

UNIT LIMIT:

FIG. 72D




**YOU HAVE REQUESTED THESE PROPERTIES:**

**LOONEY TUNE NEWS!**

CANCEL

SUSPEND

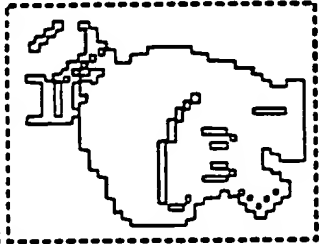
APPROVE



















More Options 

PROPERTY INFO

**YOUR COST : \$7.50**

**Show Thumbnail**



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?:	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓		
▼ BUGS BUNNY .JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓		
BUGS BUNNY .JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY			
BUGS BUNNY .JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY			
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL			

SET LIMITS...

SHOW BUDGETS

ACQUIRE BUDGET...

HISTORY...

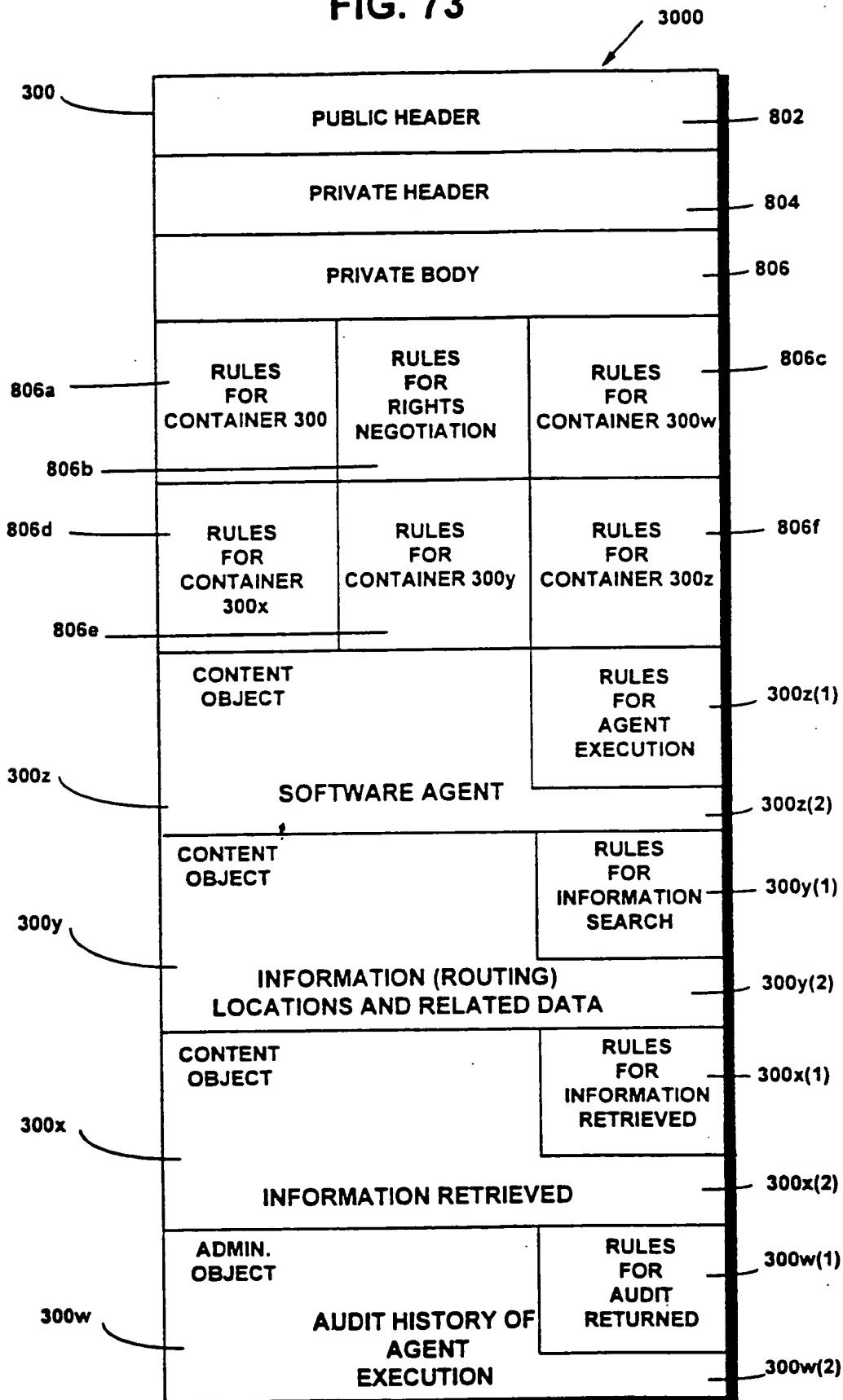
TRANSFER...

PREFERENCES...

FEEDBACK...

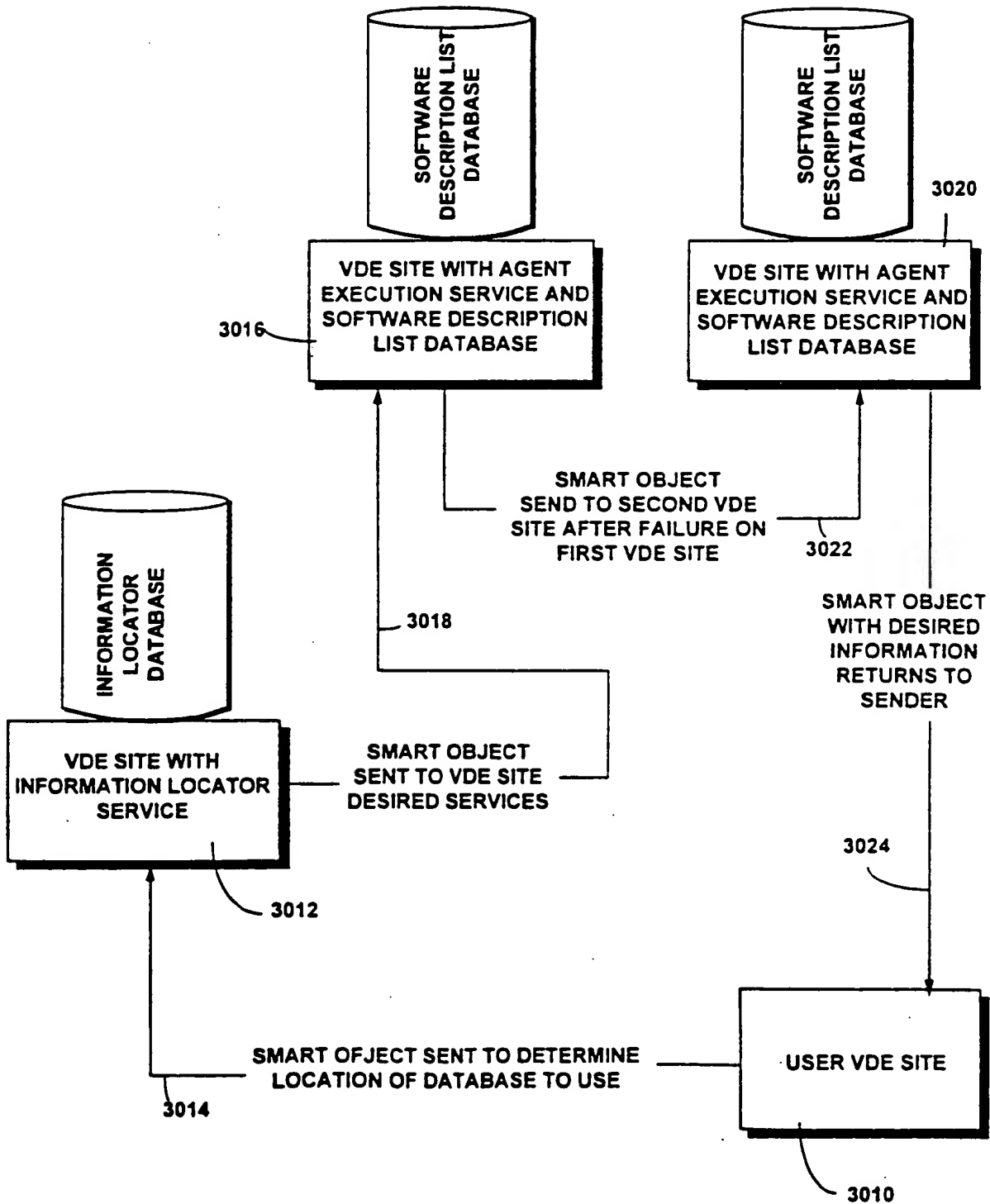
HELP!

# FIG. 73



004080" 11622560

FIG. 74



# FIG. 75A

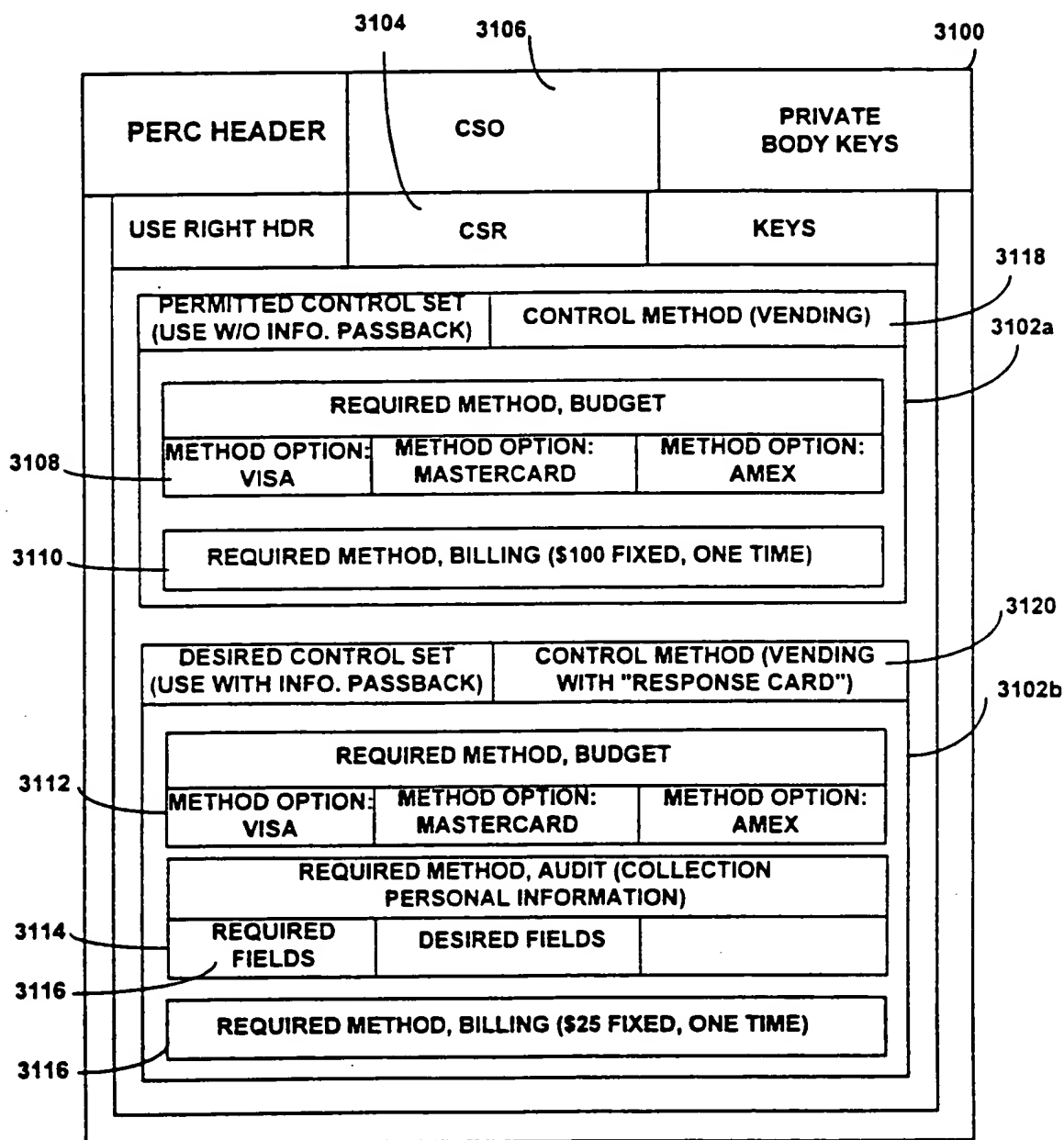
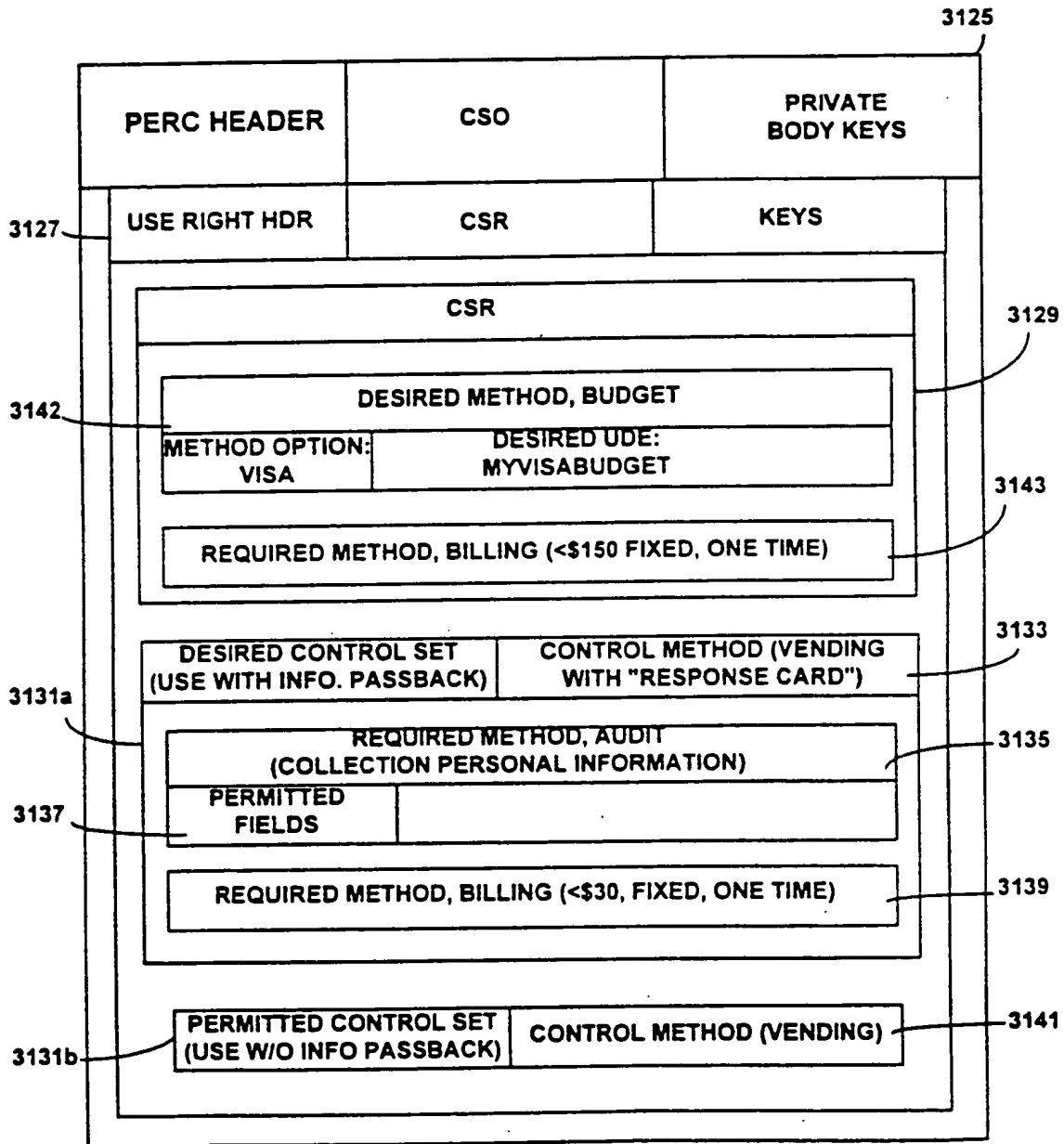


FIG. 75B



004080" 11162E960

FIG. 75C

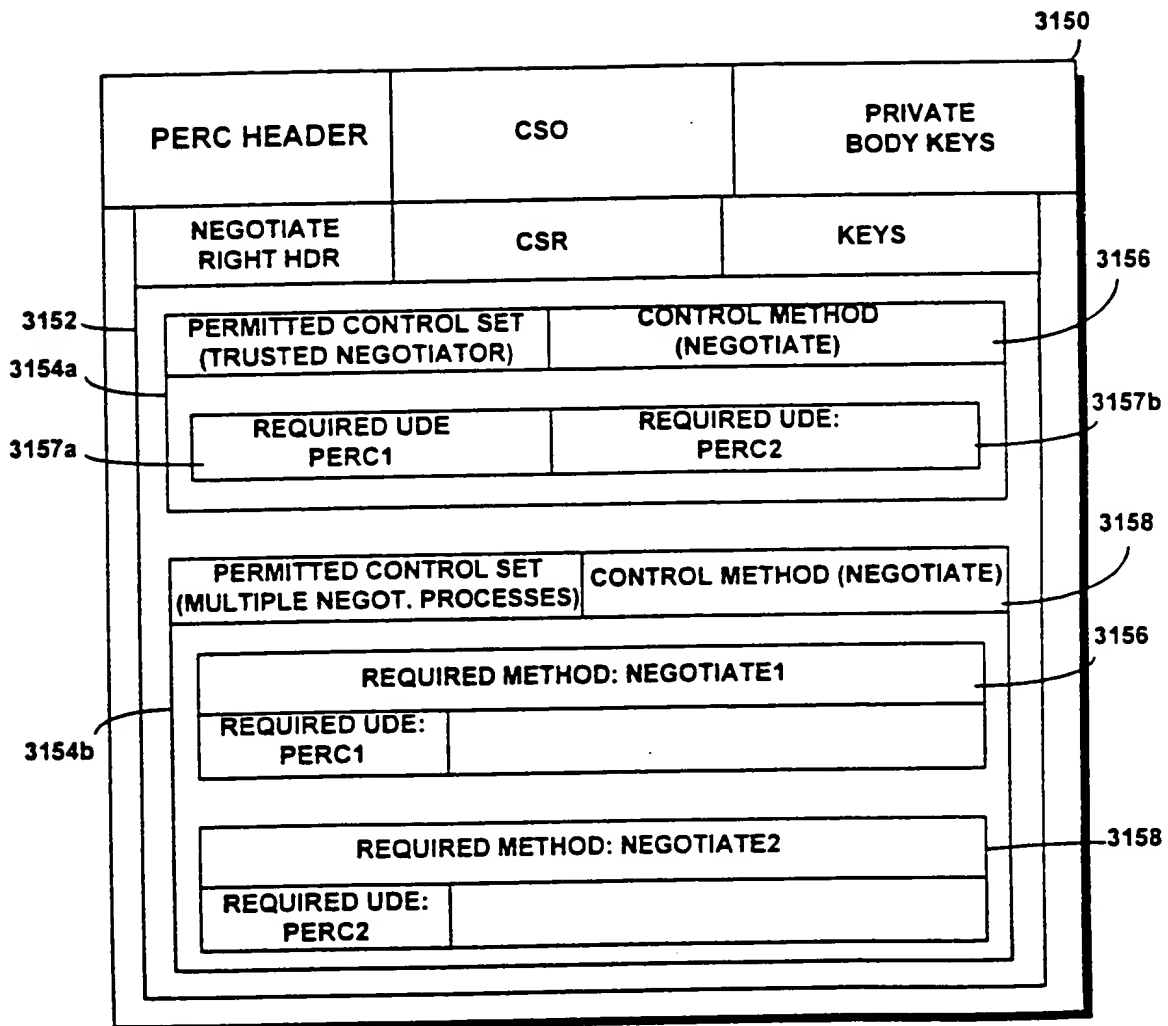
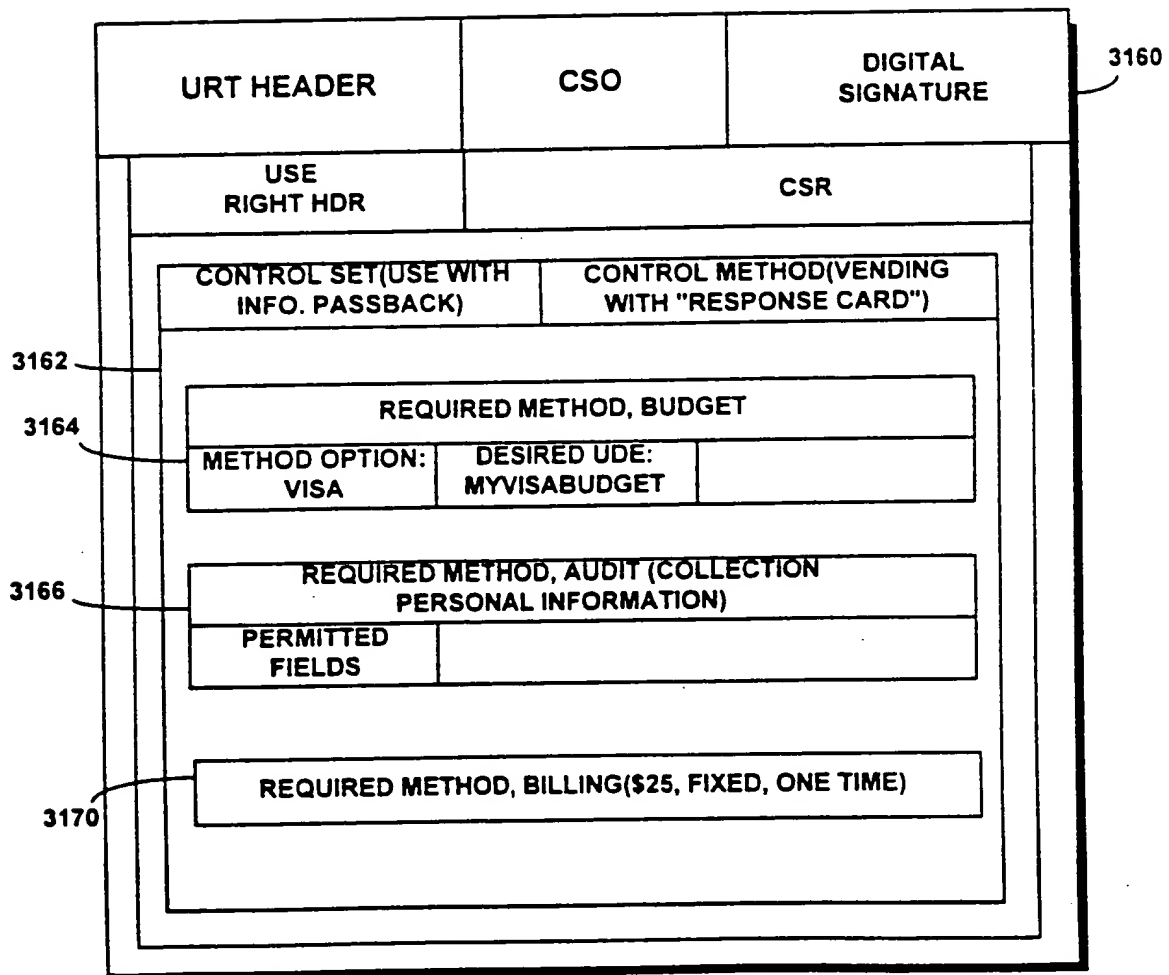


FIG. 75D





004030-1162960

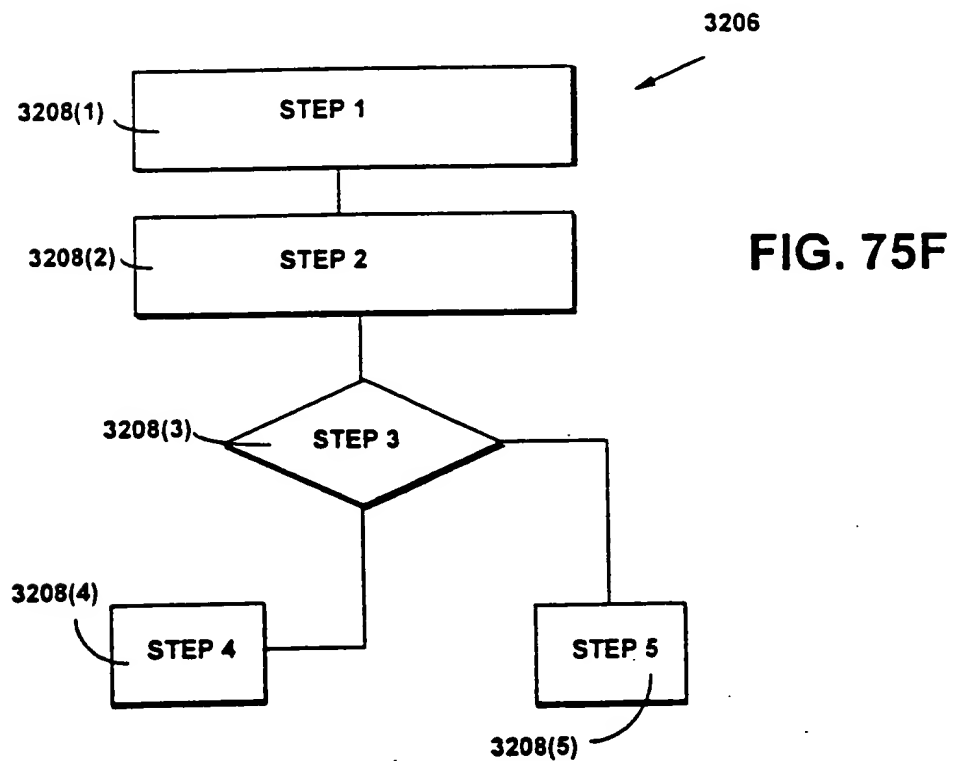
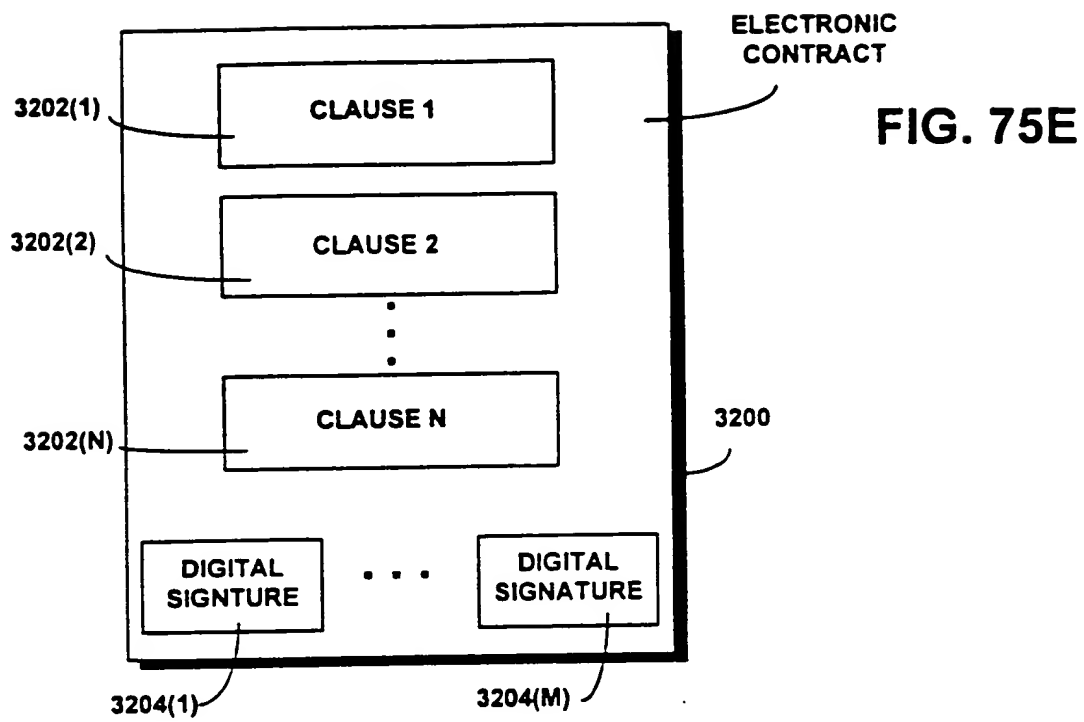


FIG. 76A

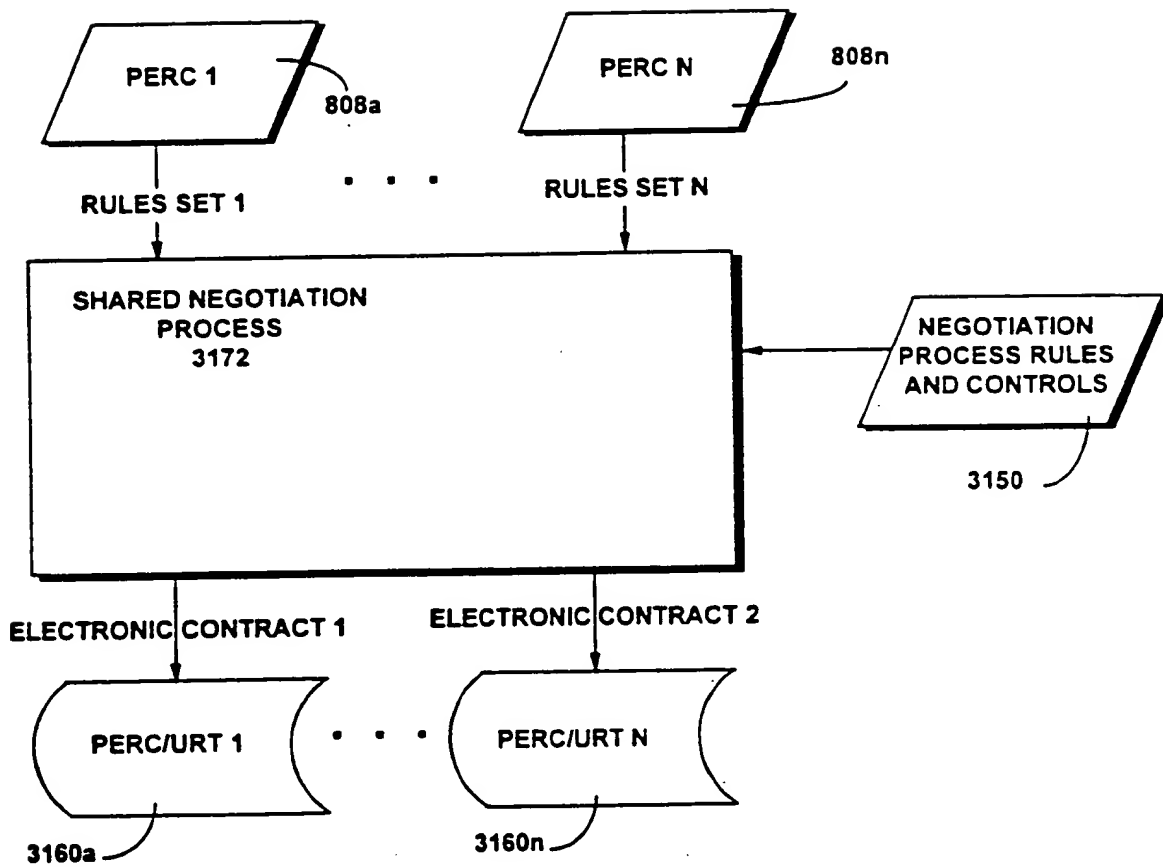
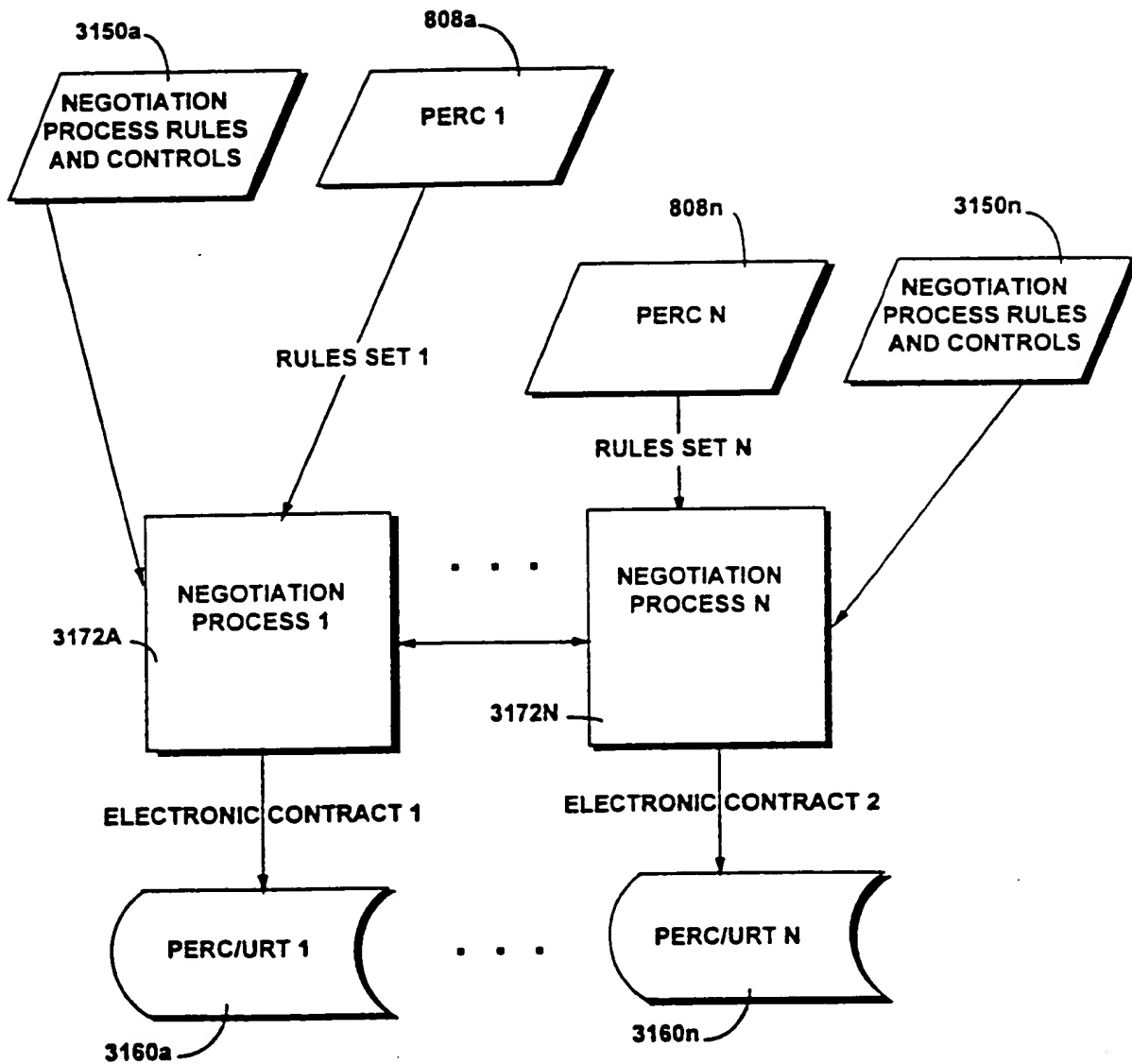
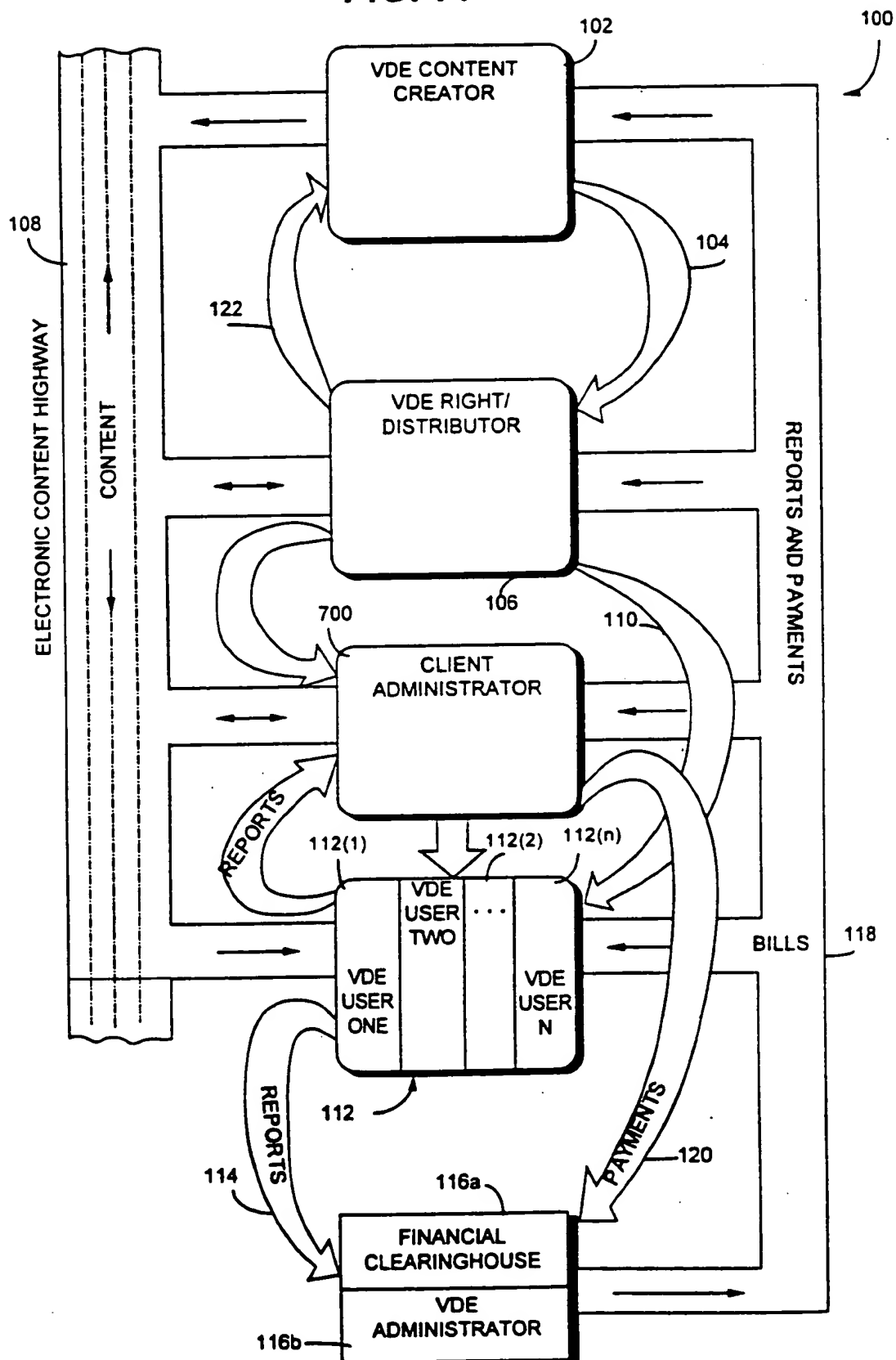


FIG. 76B





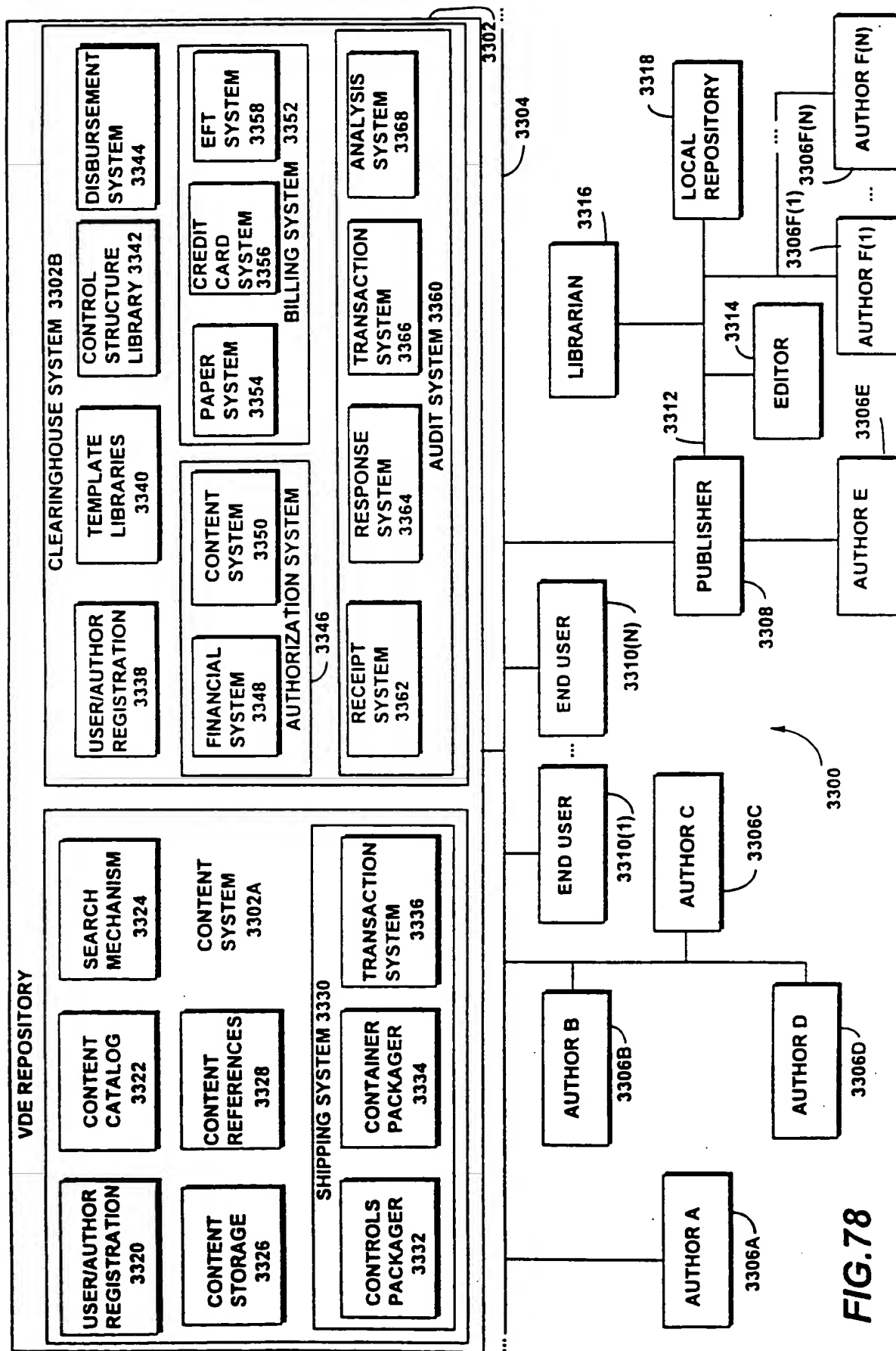
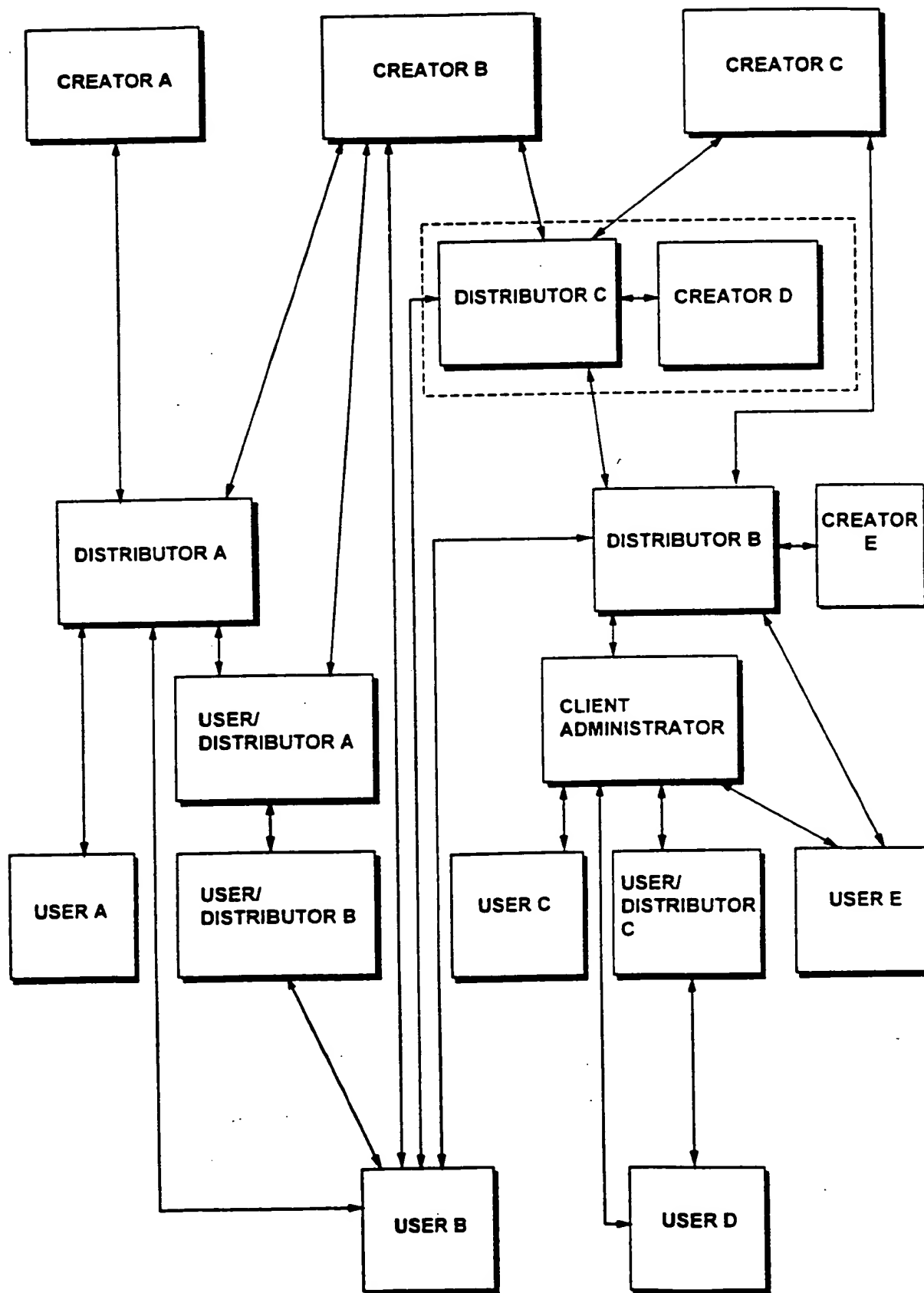


FIG. 79



**FIG. 80**

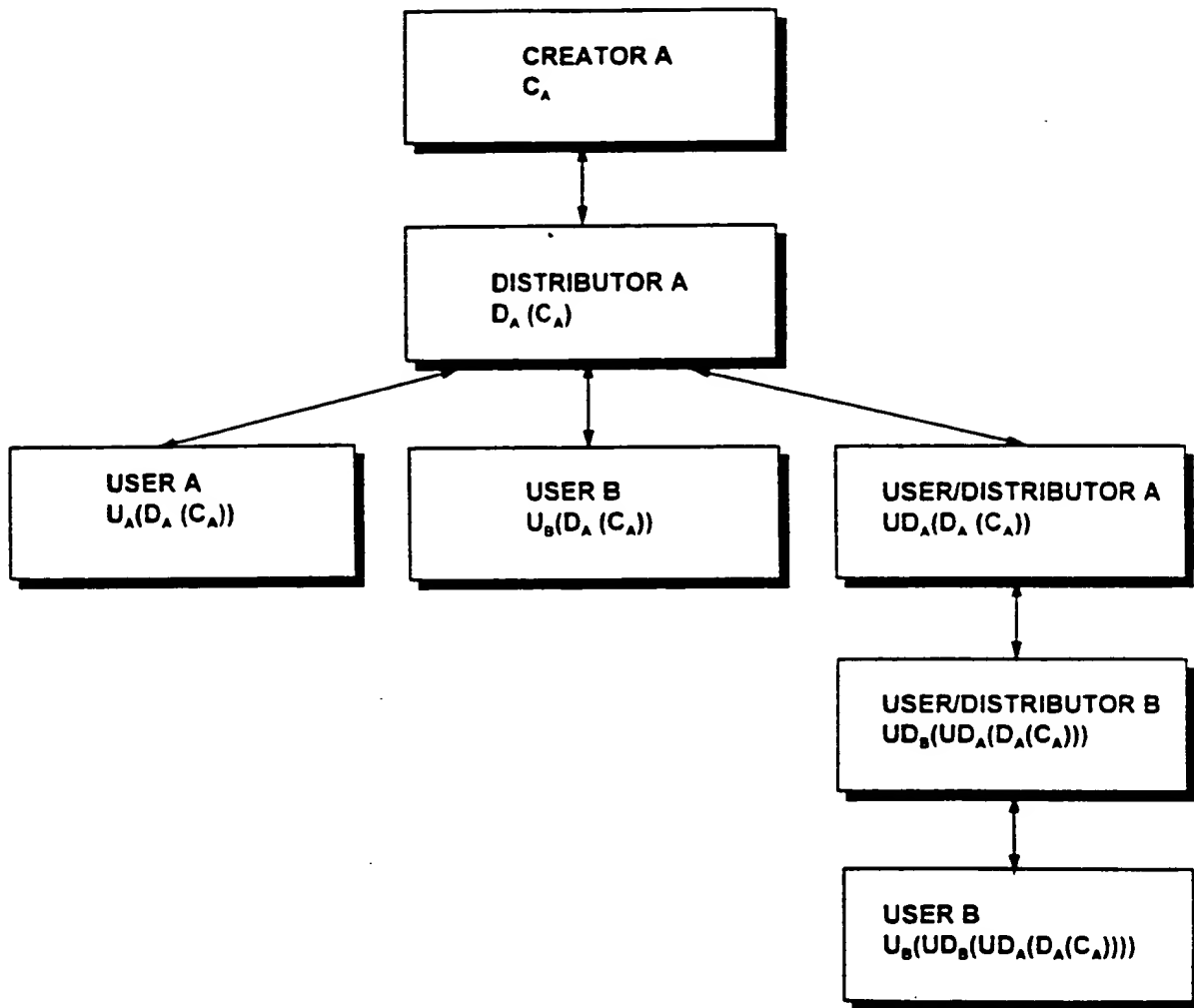


FIG. 81

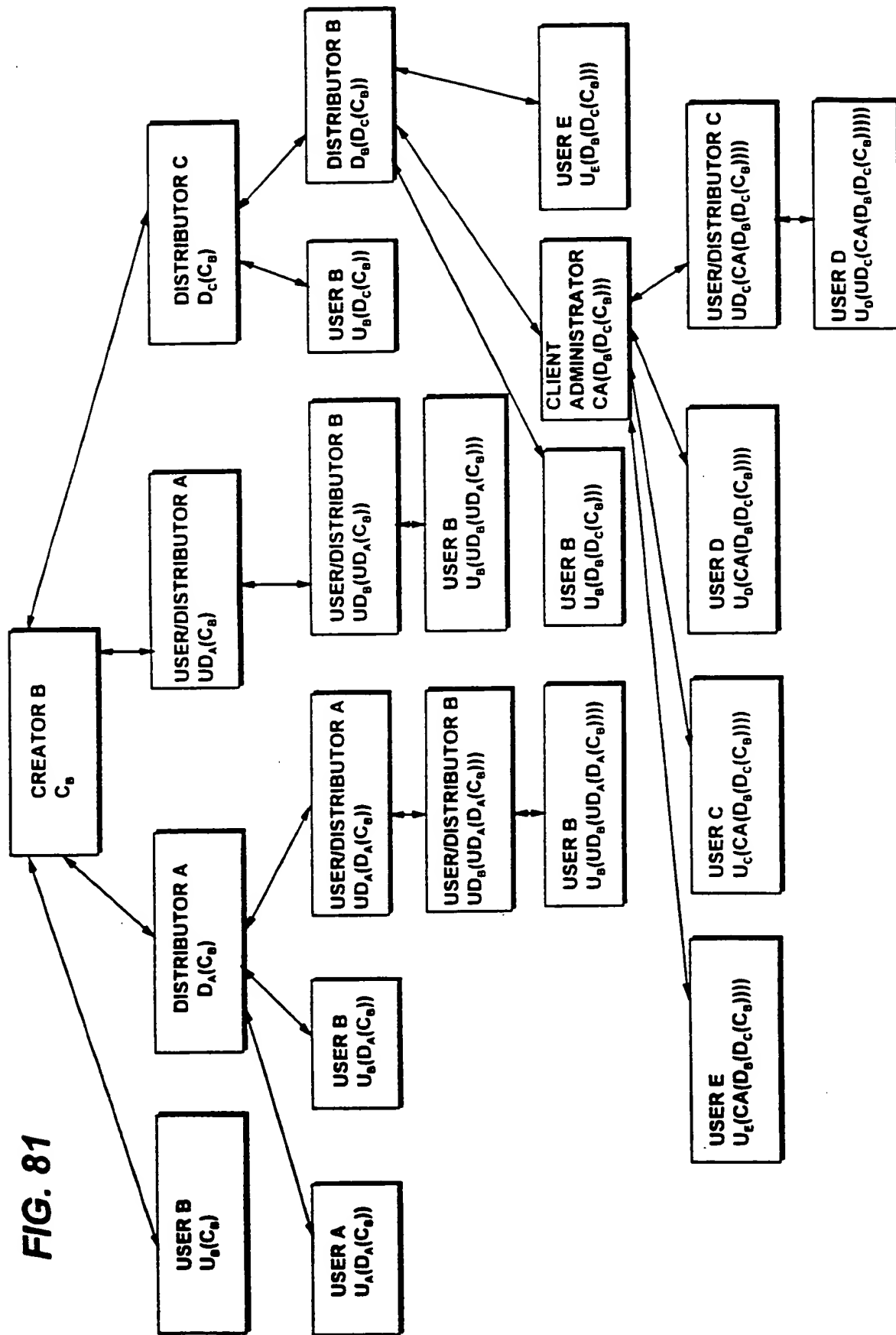
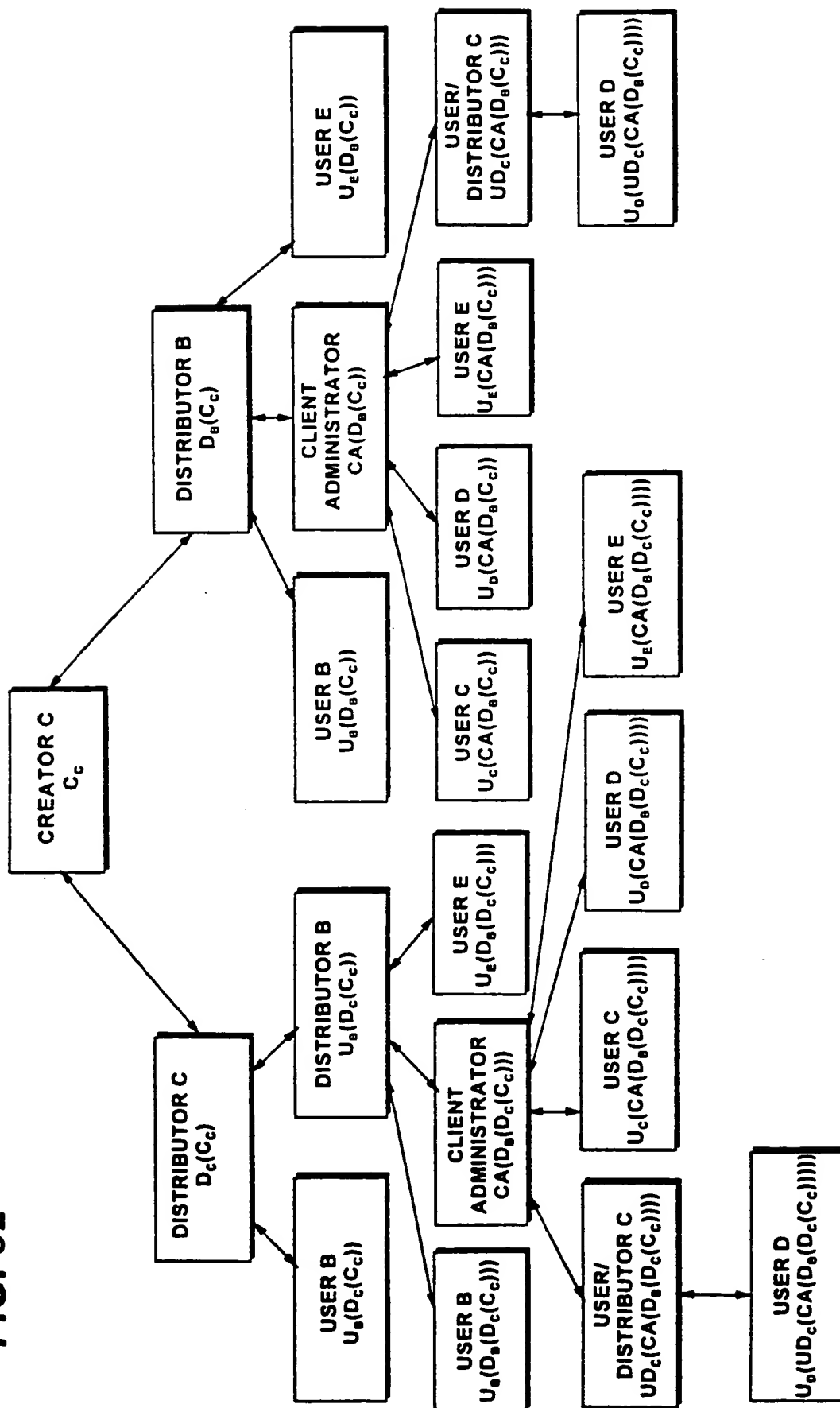
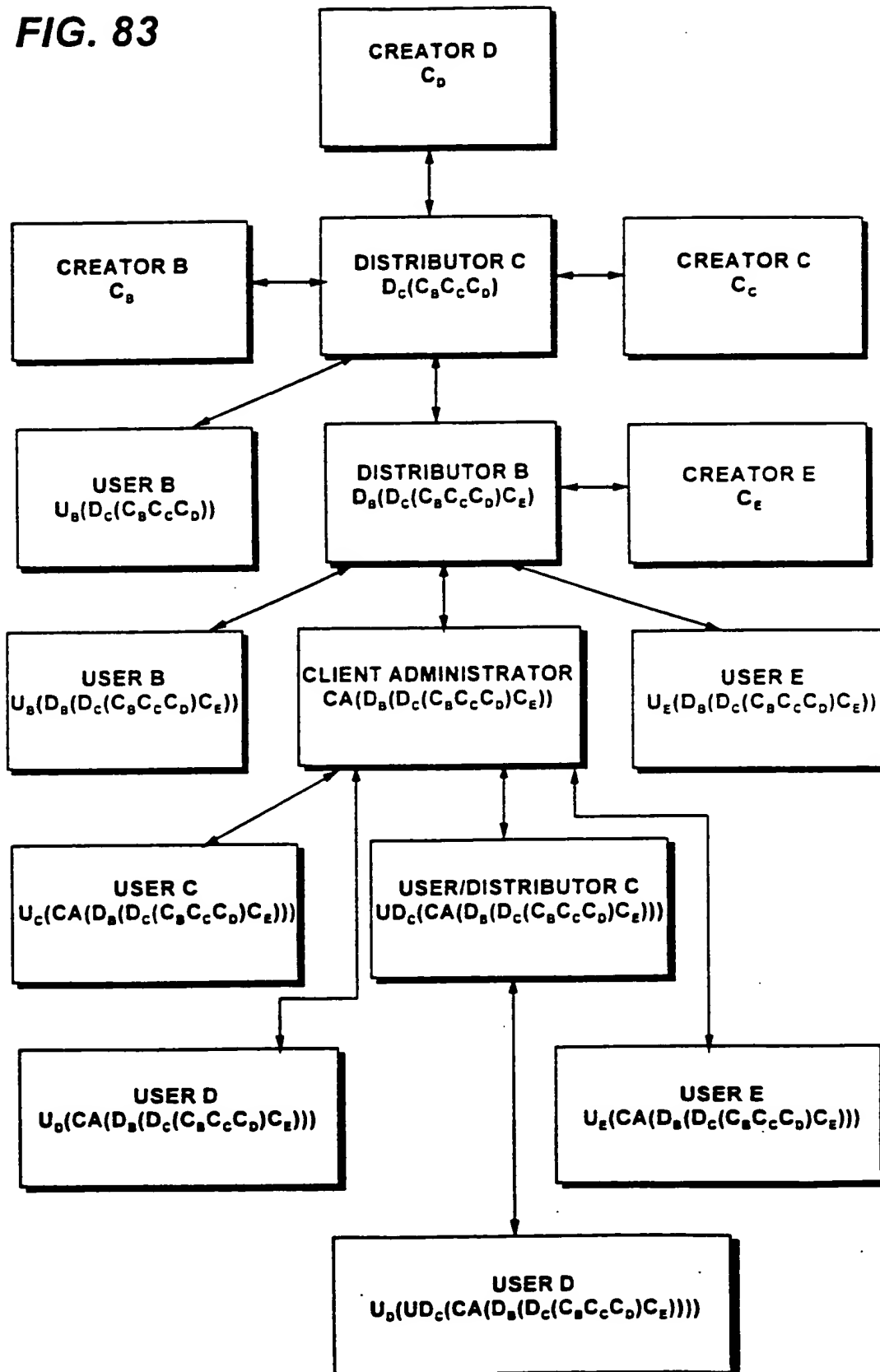




FIG. 82



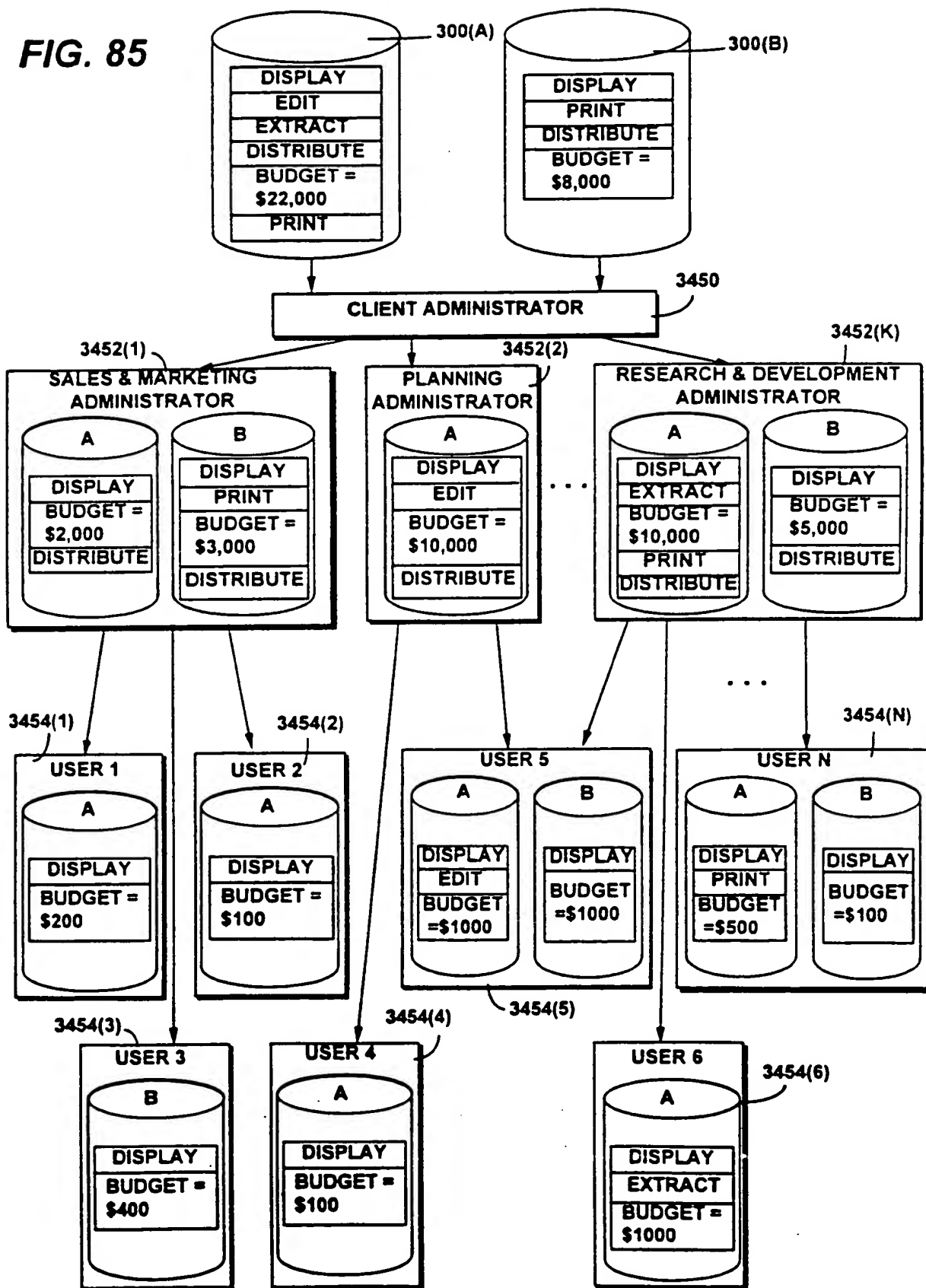
**FIG. 83**



004030-11622560



**FIG. 85**





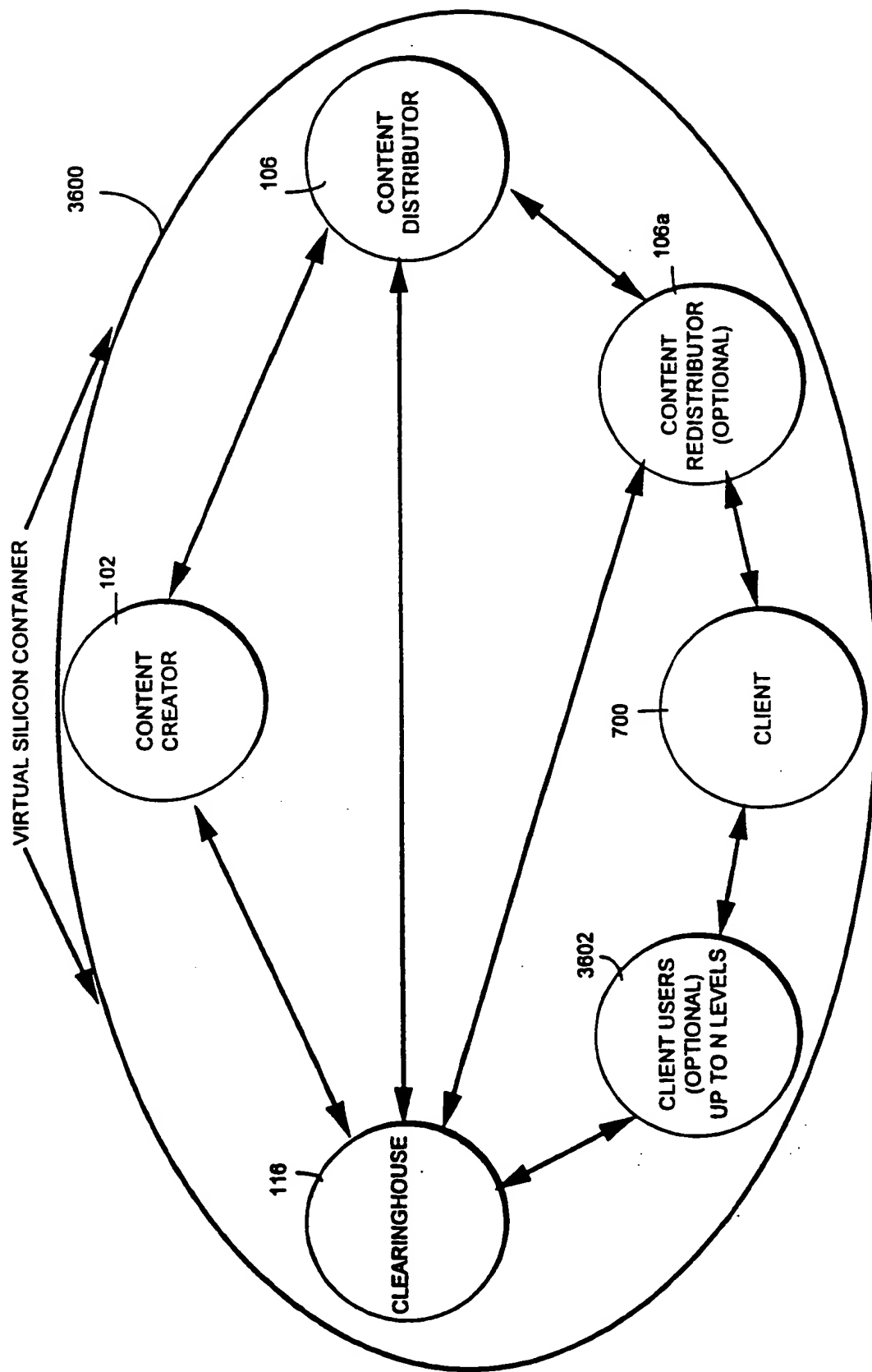


FIG. 87

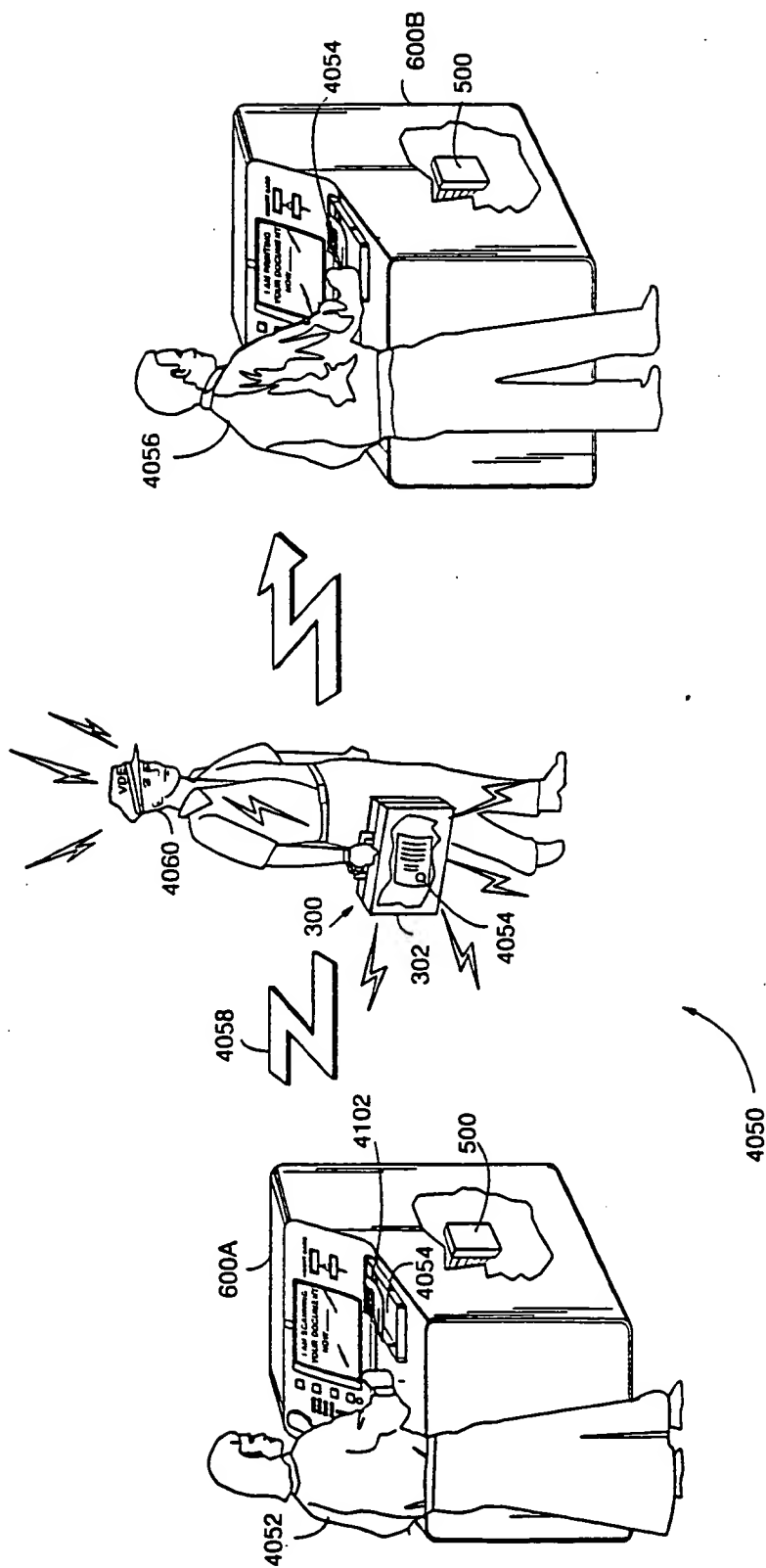
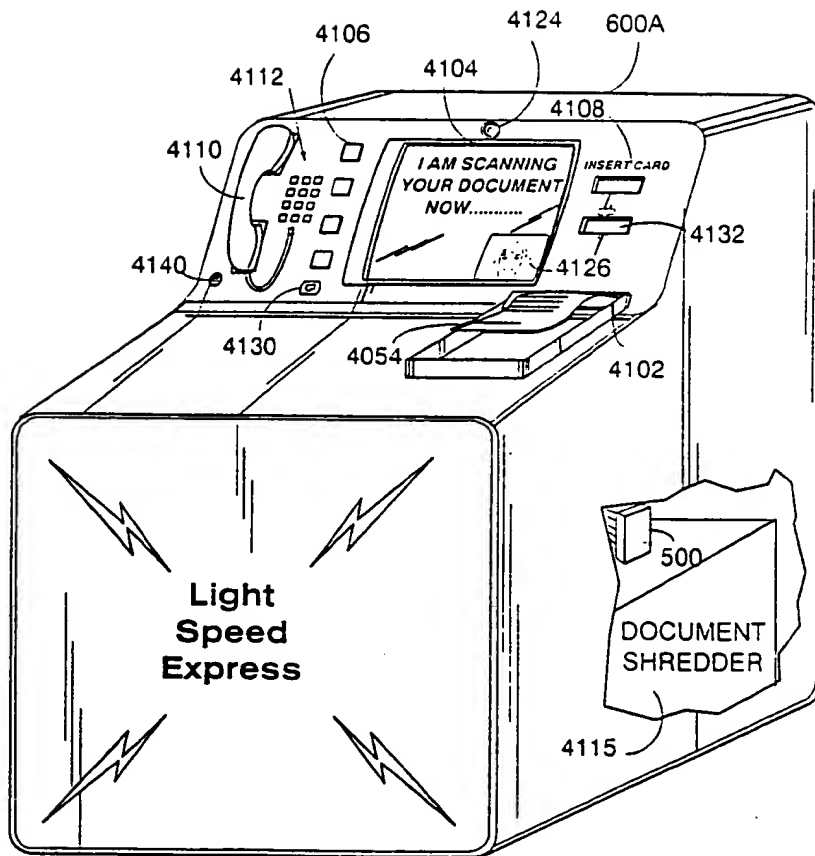


FIG. 88

TRUSTED ELECTRONIC DELIVERY

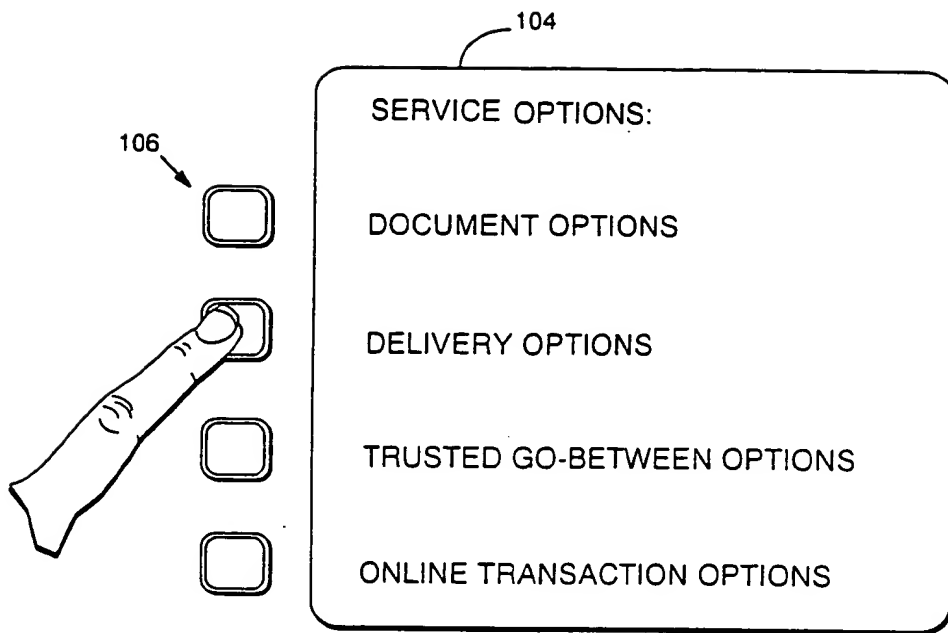
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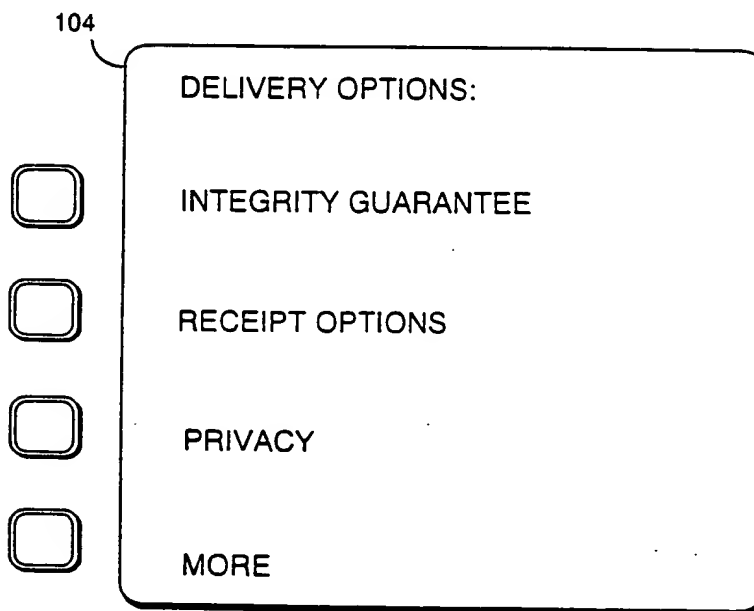
**FIG. 89**  
**EXAMPLE ELECTRONIC KIOSK APPLIANCE**



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**FIG. 90A** EXAMPLE MENU OPTIONS



**FIG. 90B** EXAMPLE DELIVERY MENU OPTIONS

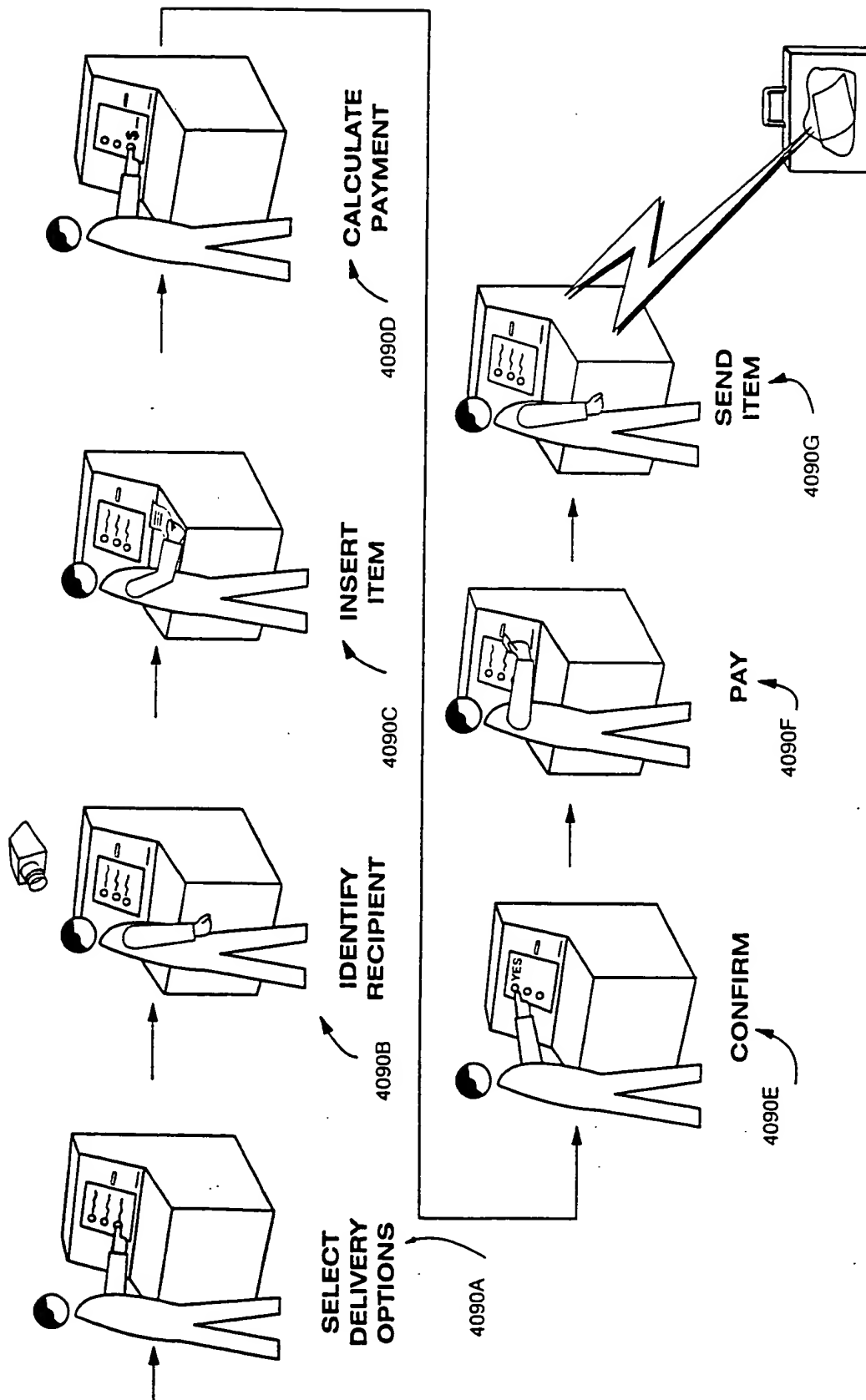
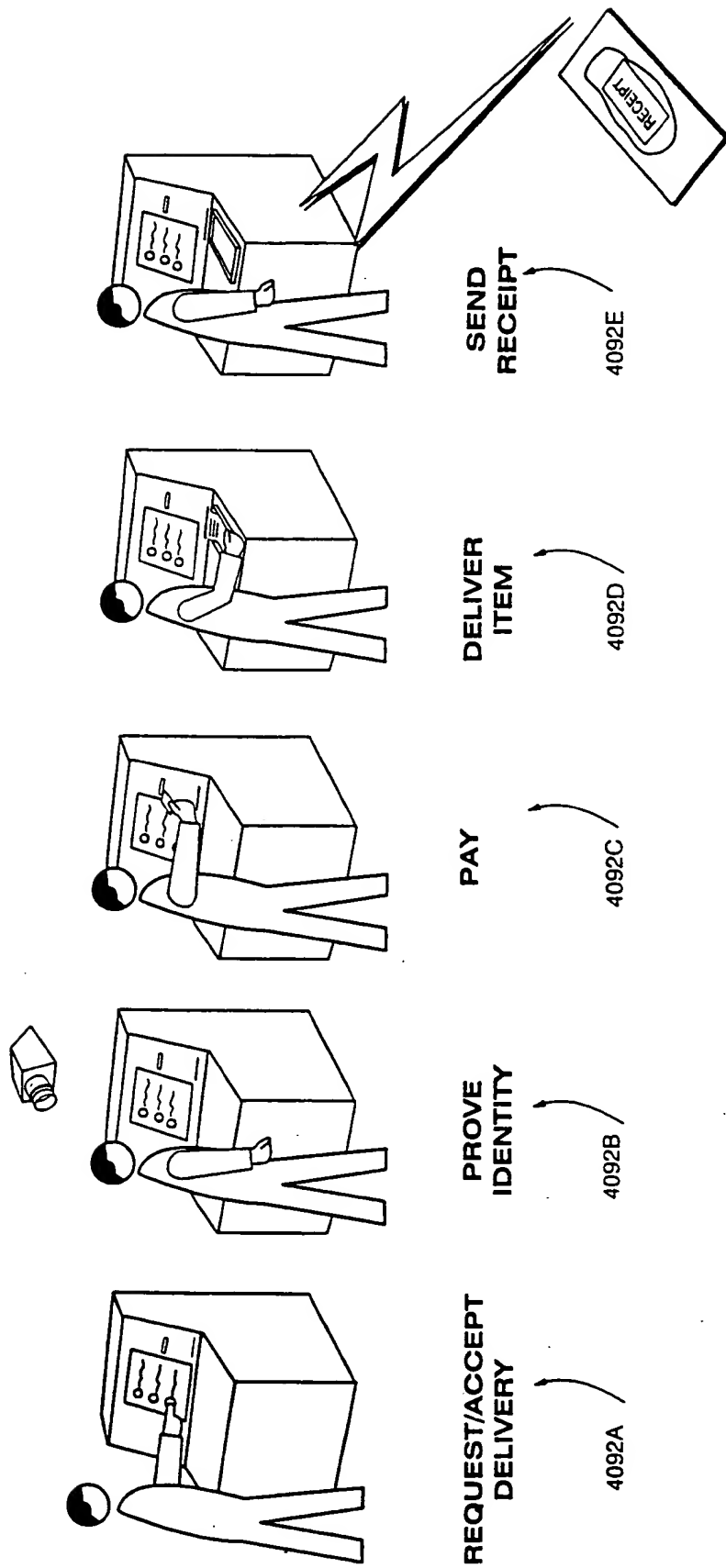
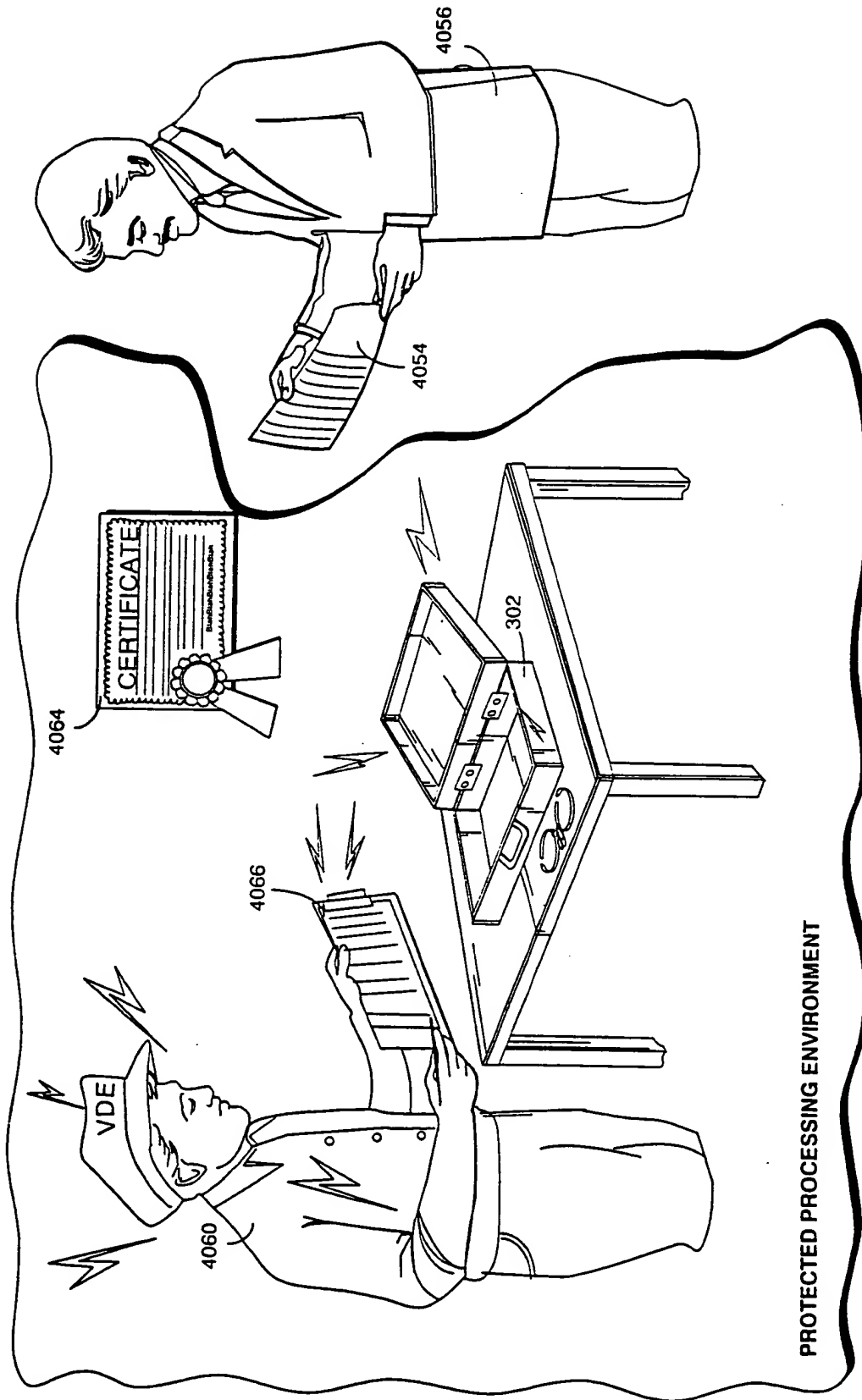


FIG. 91A EXAMPLE STEPS TO SEND AN ITEM



**FIG. 91B** EXAMPLE STEPS TO RECEIVE ITEM



**FIG. 92** TRUSTED DIGITAL DELIVERY CAN  
PROVIDE SECURE RECEIPTS

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# RECEIPT

DOCUMENT NO 78775

DELIVERED TO

VICTOR SHEAR OF

INTERTRUST TECHNOLOGIES

CORP. ON

MONDAY 2/13/95

5:20 PM PDST

OPENED BY

VICTOR SHEAR OF

INTERTRUST TECHNOLOGIES

CORP. ON

MONDAY 2/13/95

6:15 PM PDST

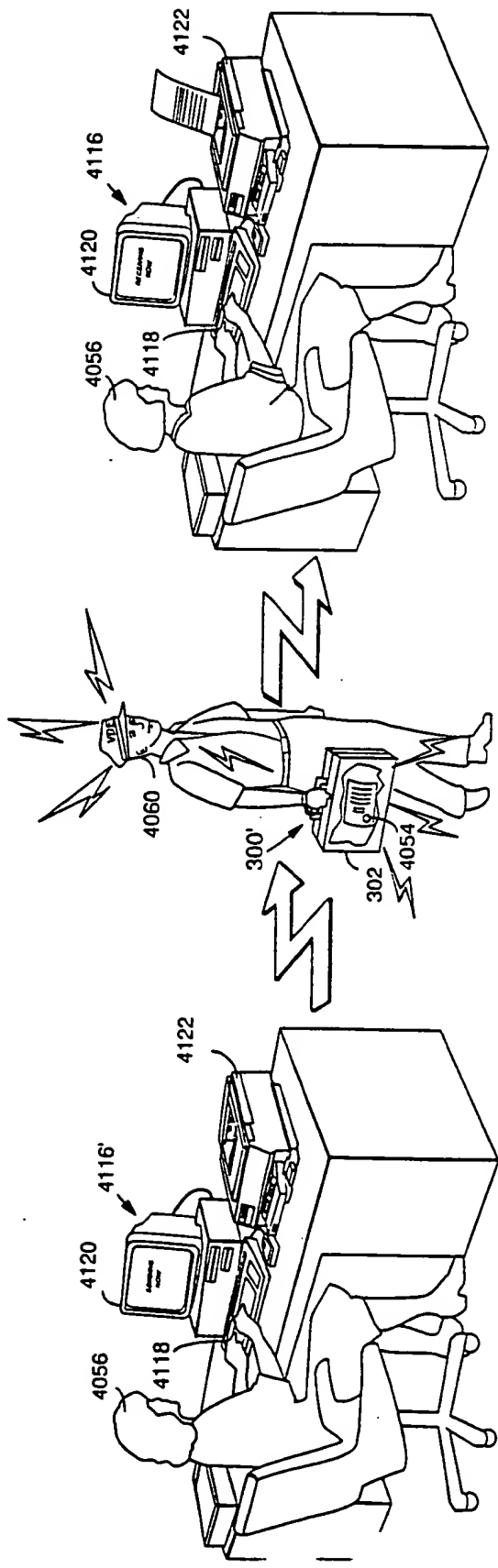


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**FIG. 92A**  
**EXAMPLE DELIVERY RECEIPT**



**TRUSTED DELIVERY OF SCANNED DOCUMENT**



**FIG. 95**  
TRUSTED ELECTRONIC DATA DELIVERY



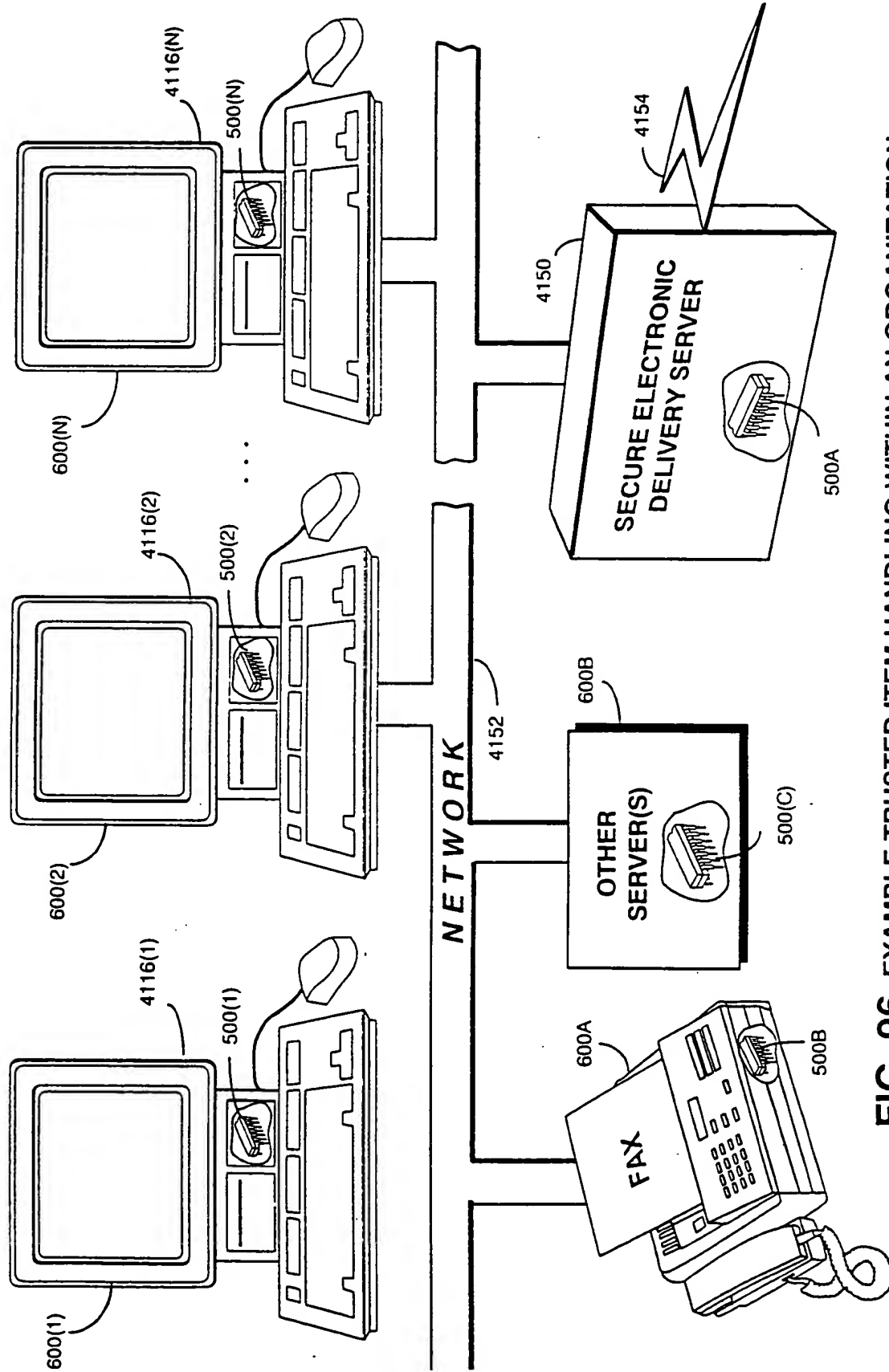


FIG. 96 EXAMPLE TRUSTED ITEM HANDLING WITHIN AN ORGANIZATION



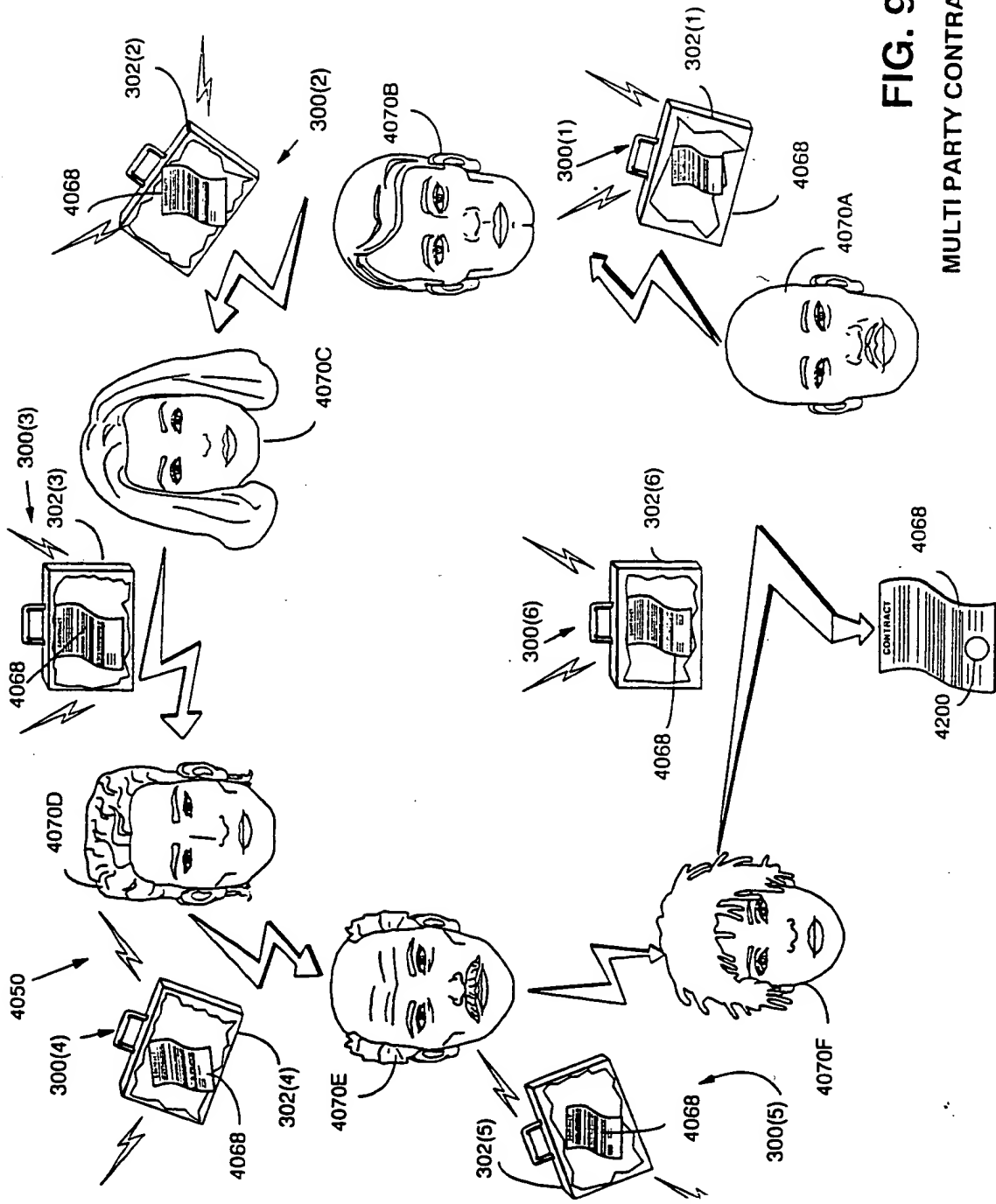


FIG. 98

MULTI PARTY CONTRACT EXECUTION

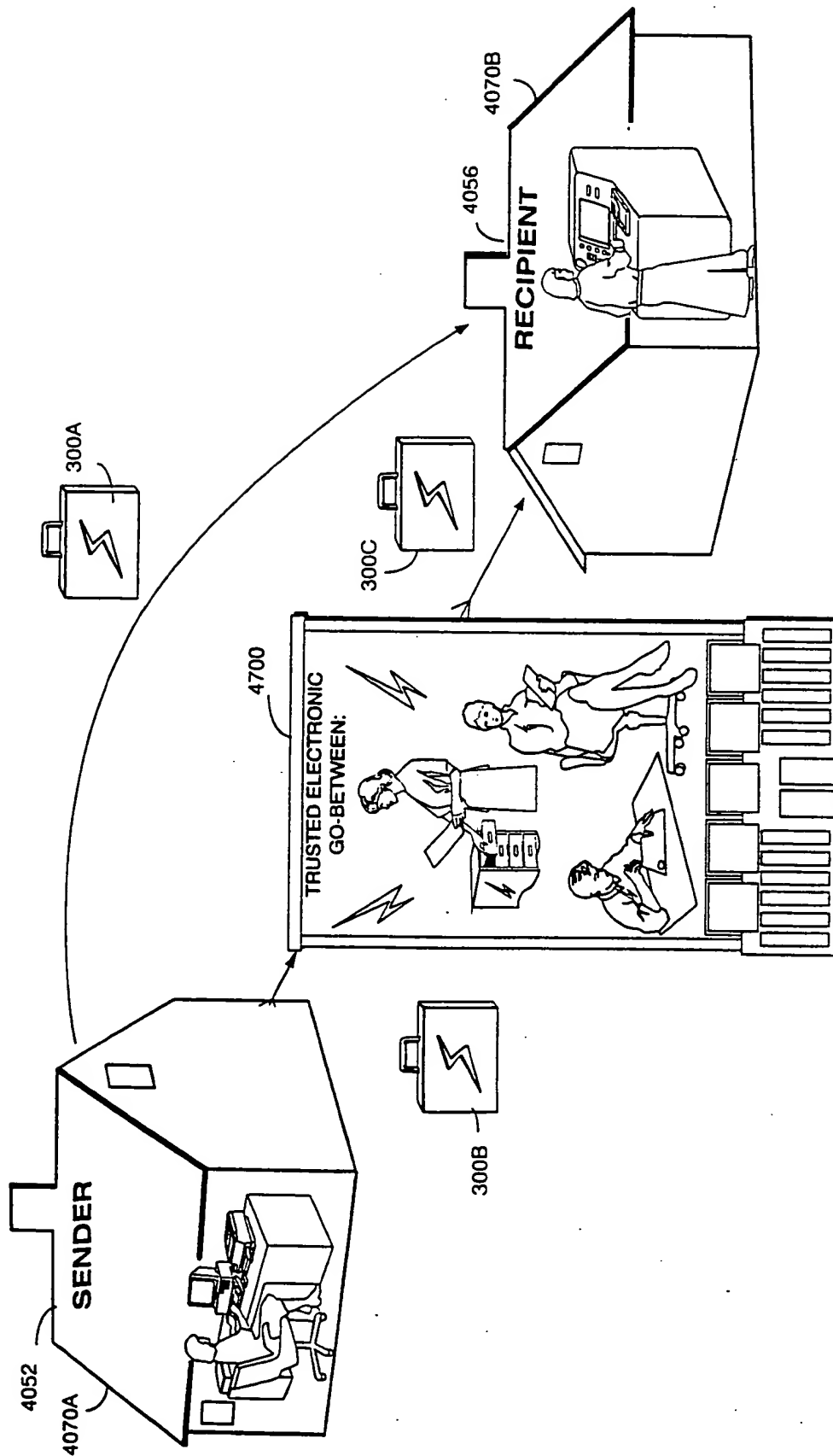
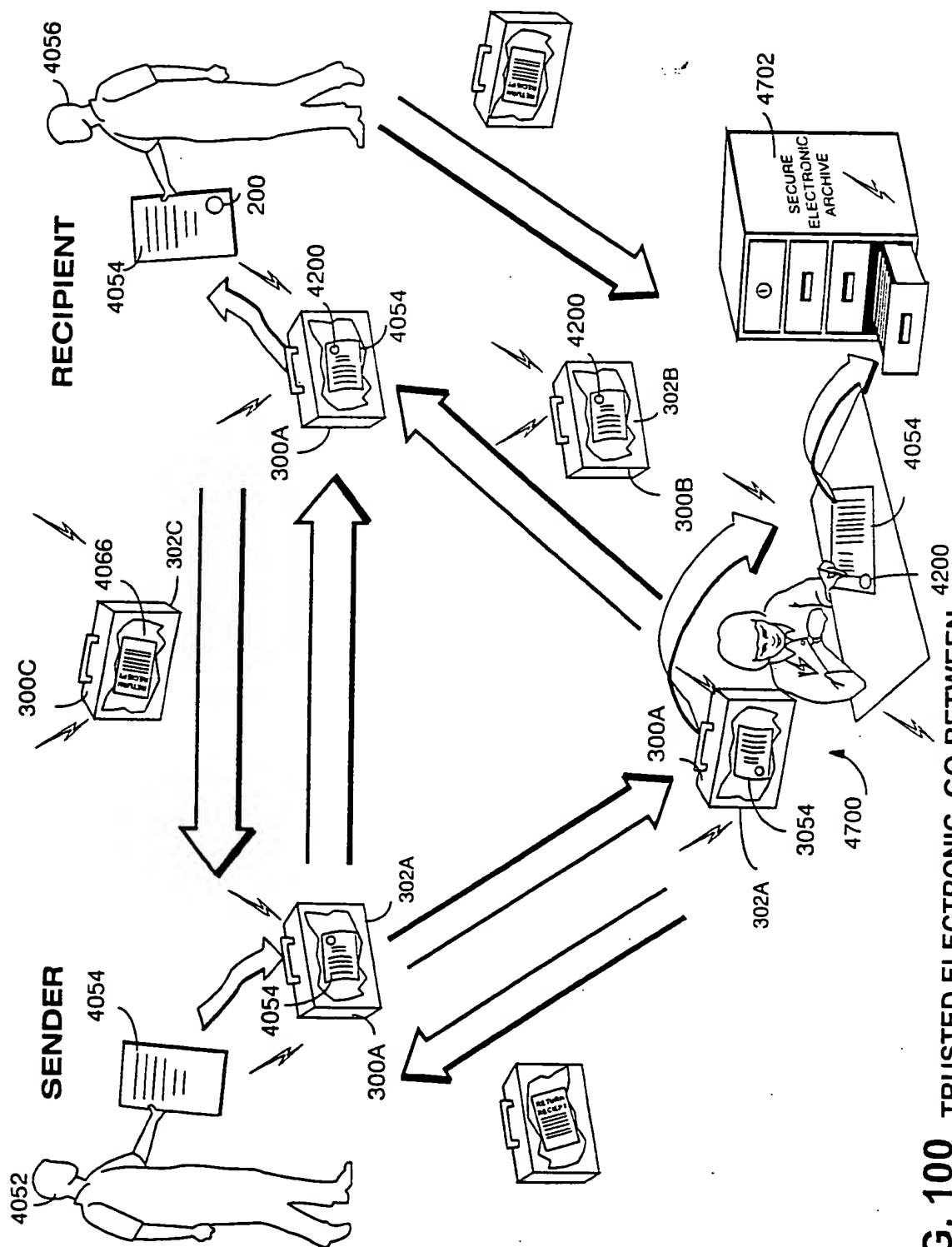
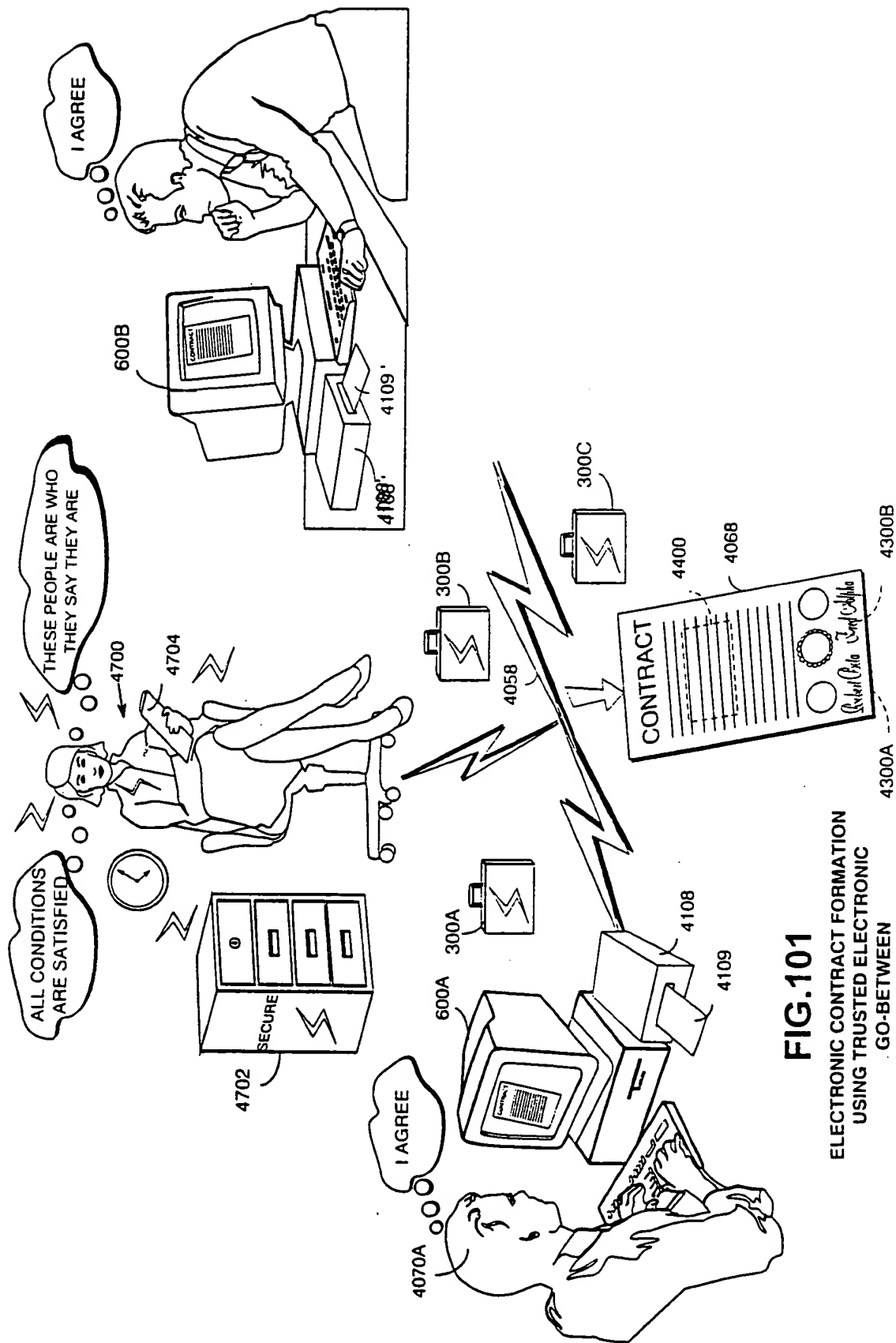


FIG. 99 TRUSTED ELECTRONIC GO-BETWEEN



**FIG. 100** TRUSTED ELECTRONIC GO-BETWEEN

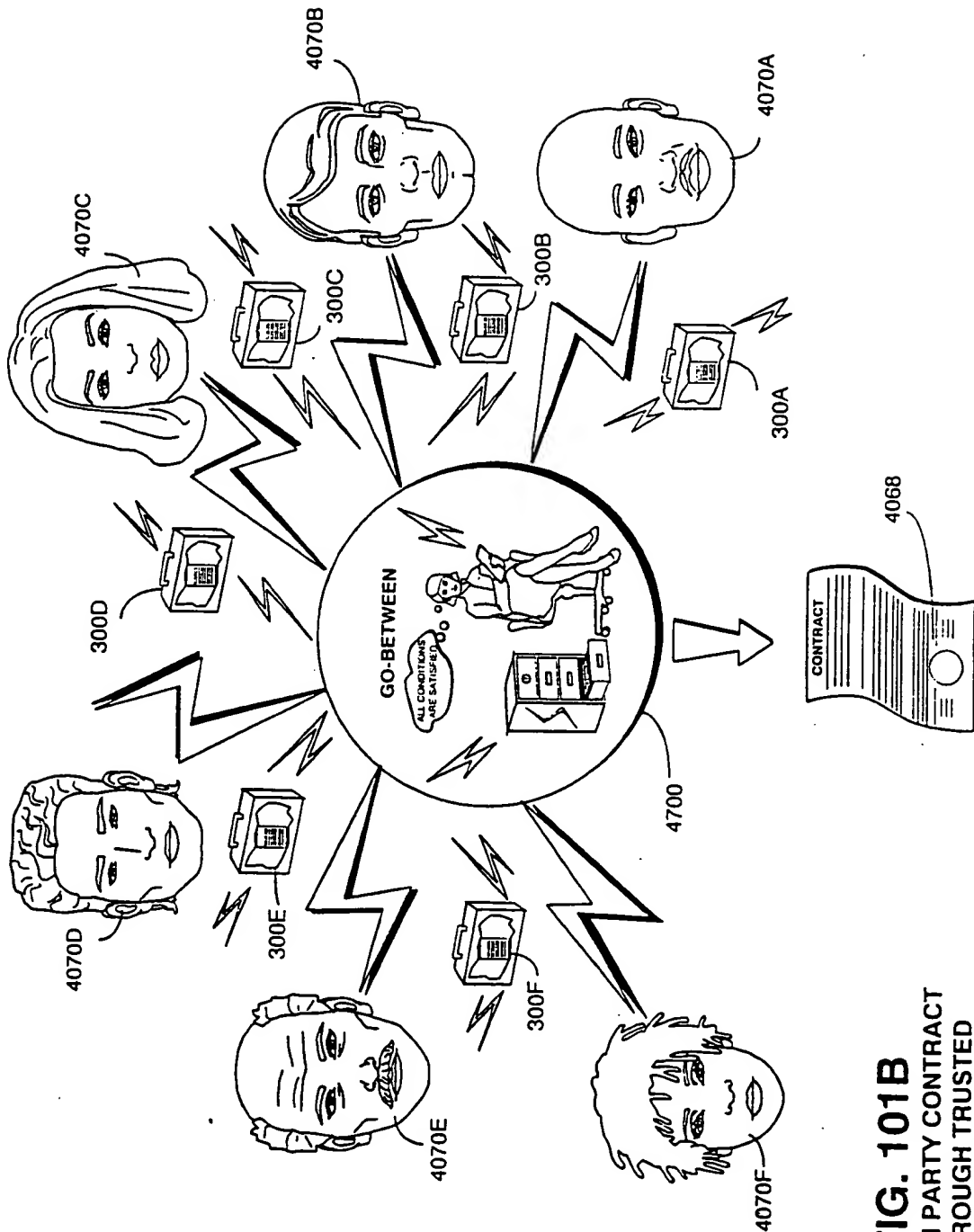


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CONDITIONS :

- ☒ EACH PARTY HAS READ THE CONTRACT
- ☒ ALL THE ATTACHMENTS ARE PRESENT
- ☒ PARTY A WILLING TO SIGN
- ☒ PARTY B WILLING TO SIGN
- ☐ PARTY A MUST SIGN
- ☐ PARTY B MUST SIGN

**FIG. 101A** EXAMPLE REQUIREMENTS LISTS



**FIG. 101B**  
MULTI PARTY CONTRACT  
THROUGH TRUSTED  
GO - BETWEEN



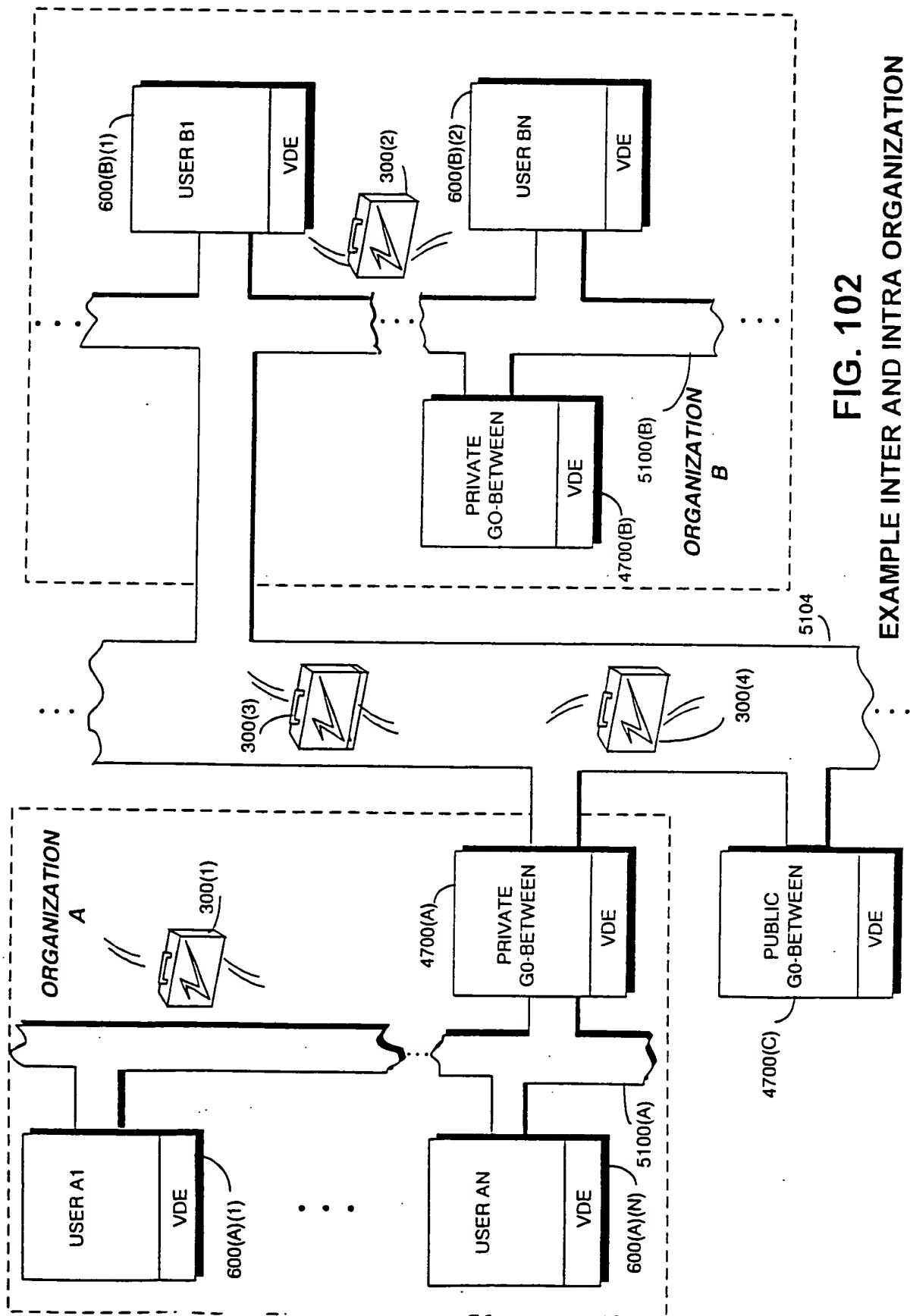
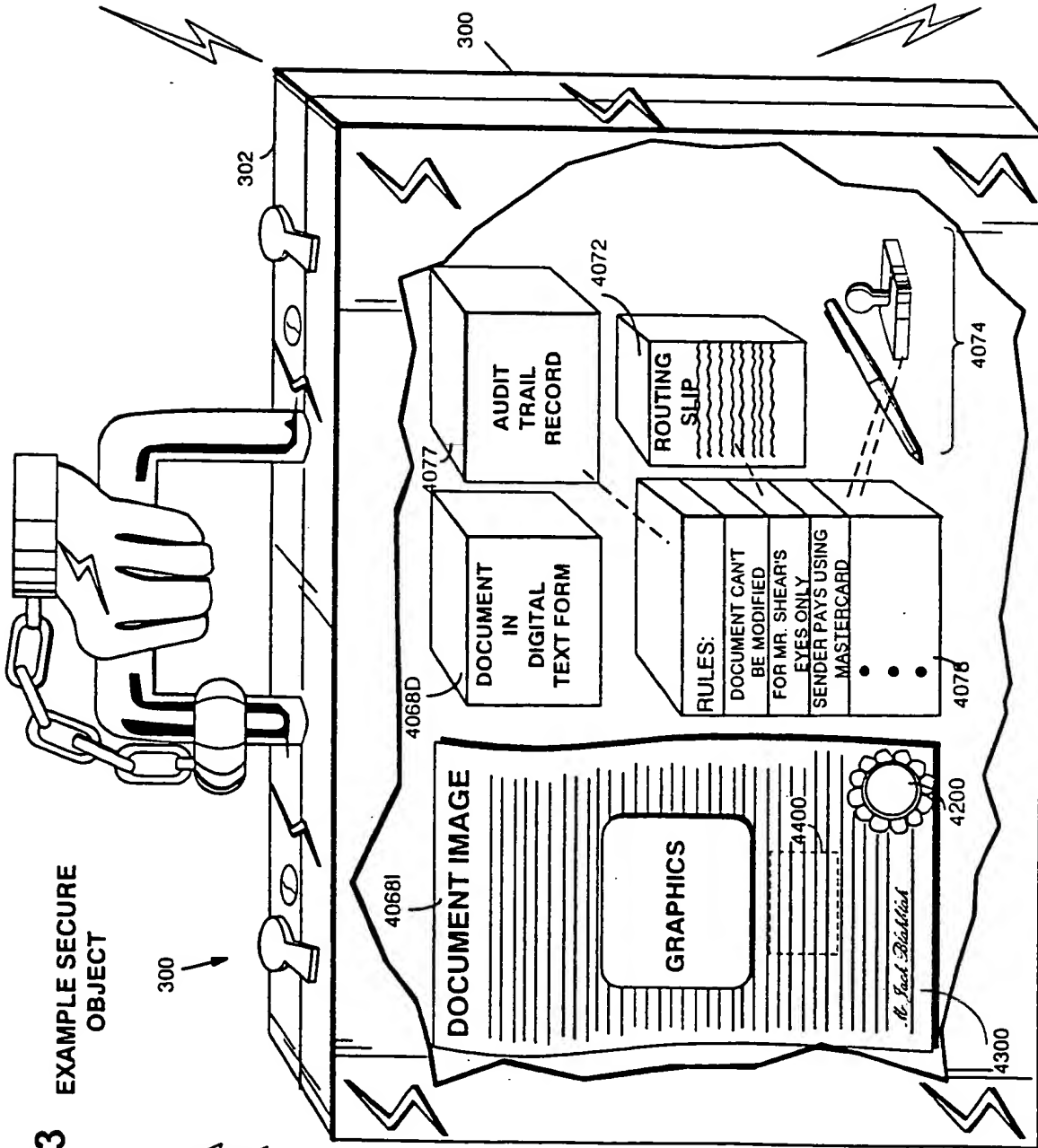


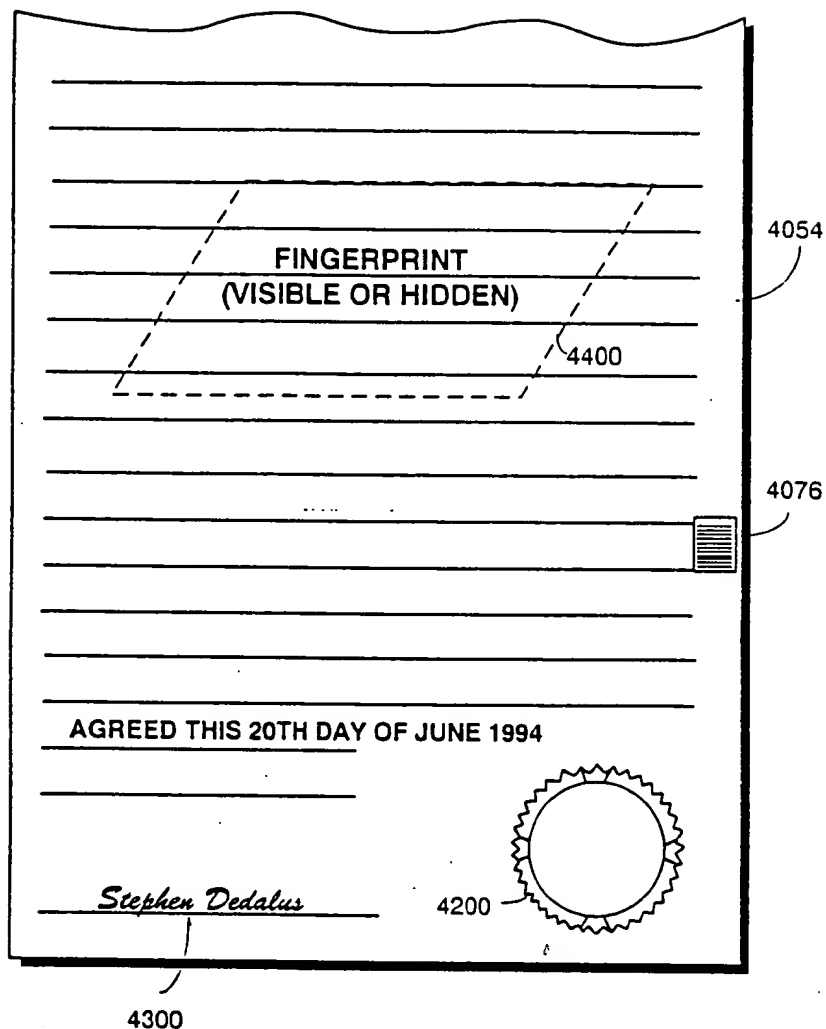
FIG. 102

EXAMPLE INTER AND INTRA ORGANIZATION

IG.103 EXAMPLE SECURE OBJECT



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**FIG. 104**

**EXAMPLE  
ELECTRONIC DOCUMENT SIGNATURES**

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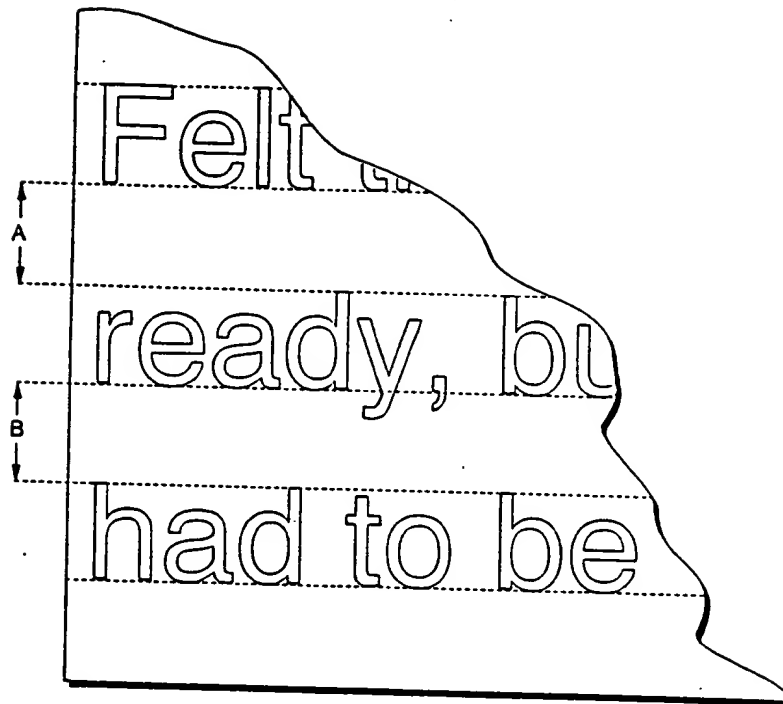


Fig. 105A  
EXAMPLE LINE SPACING ENCODING

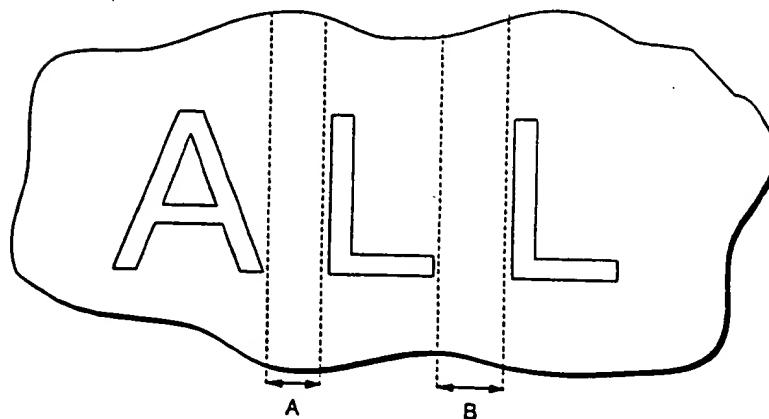


Fig. 105B  
EXAMPLE LETTER SPACING ENCODING

004080" 1152E960

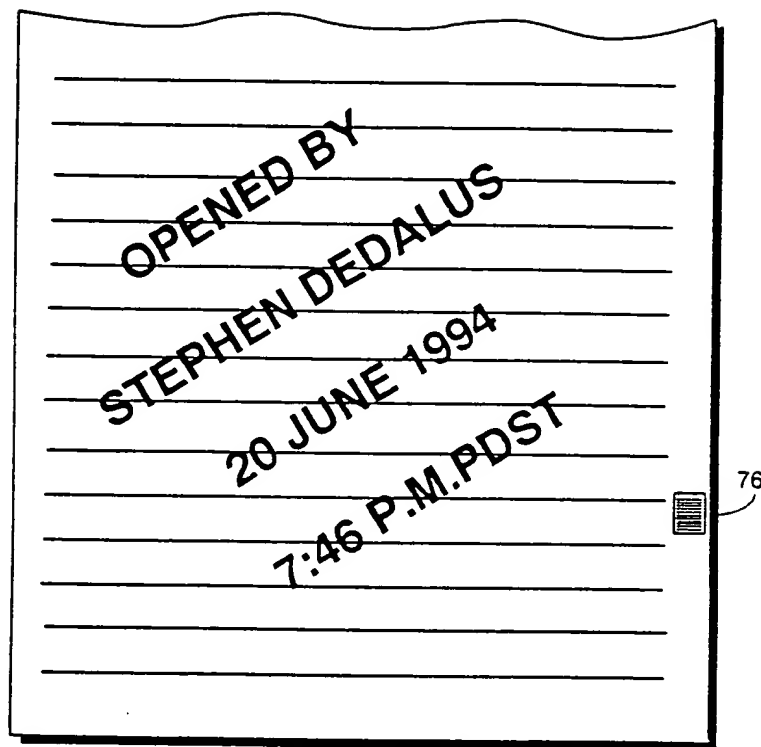
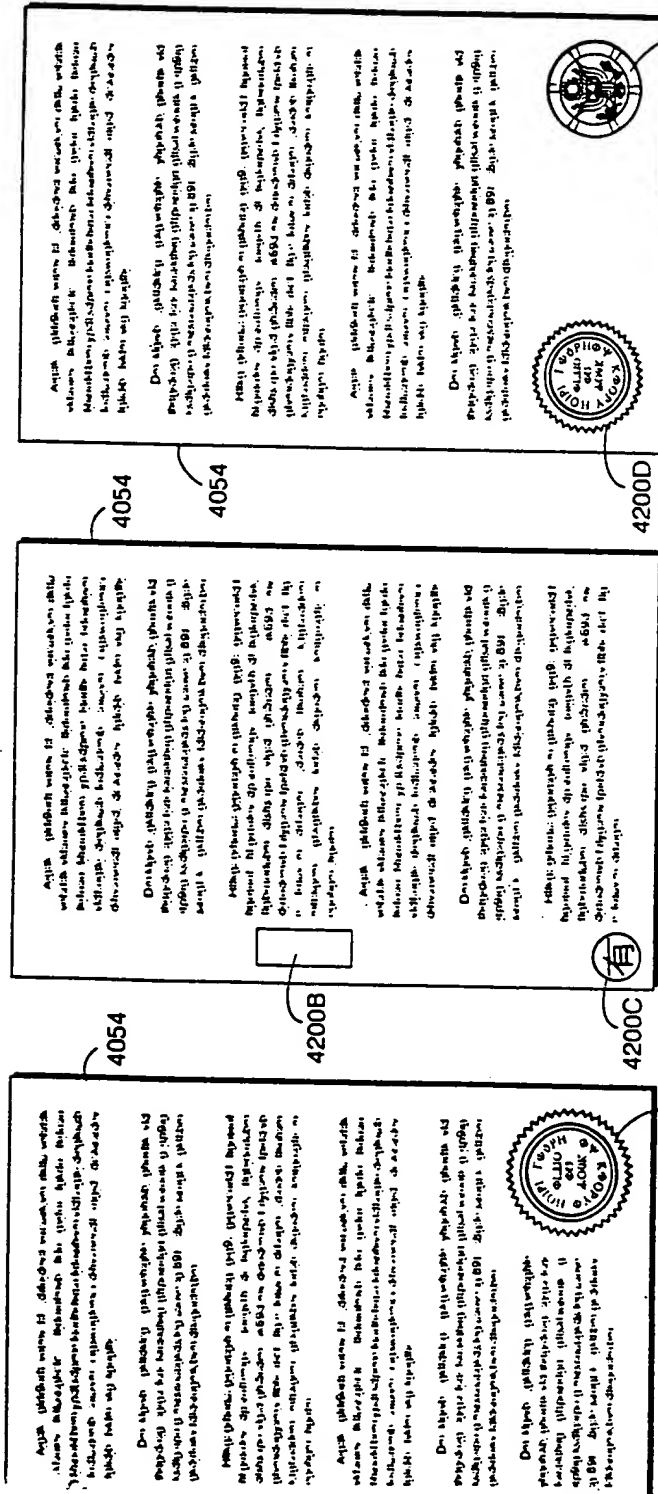


FIG. 105 C

EXAMPLE  
DOCUMENT FINGERPRINT



EXAMPLE VISUAL SEALS

004030" 1162E960

Fig. 107A  
EXAMPLE TEMPLATE SEAL

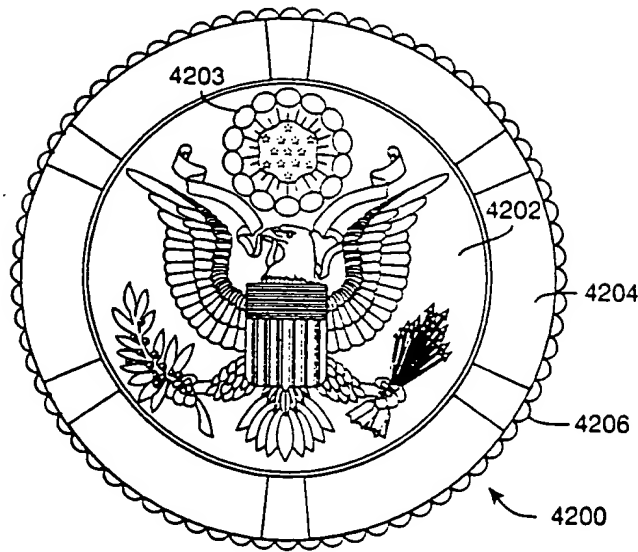
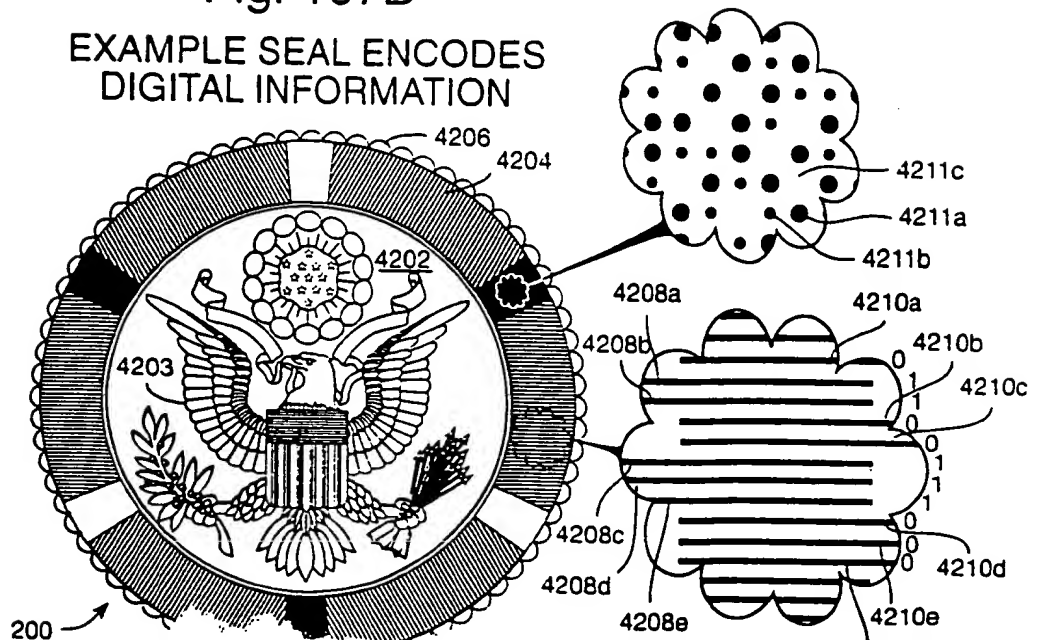
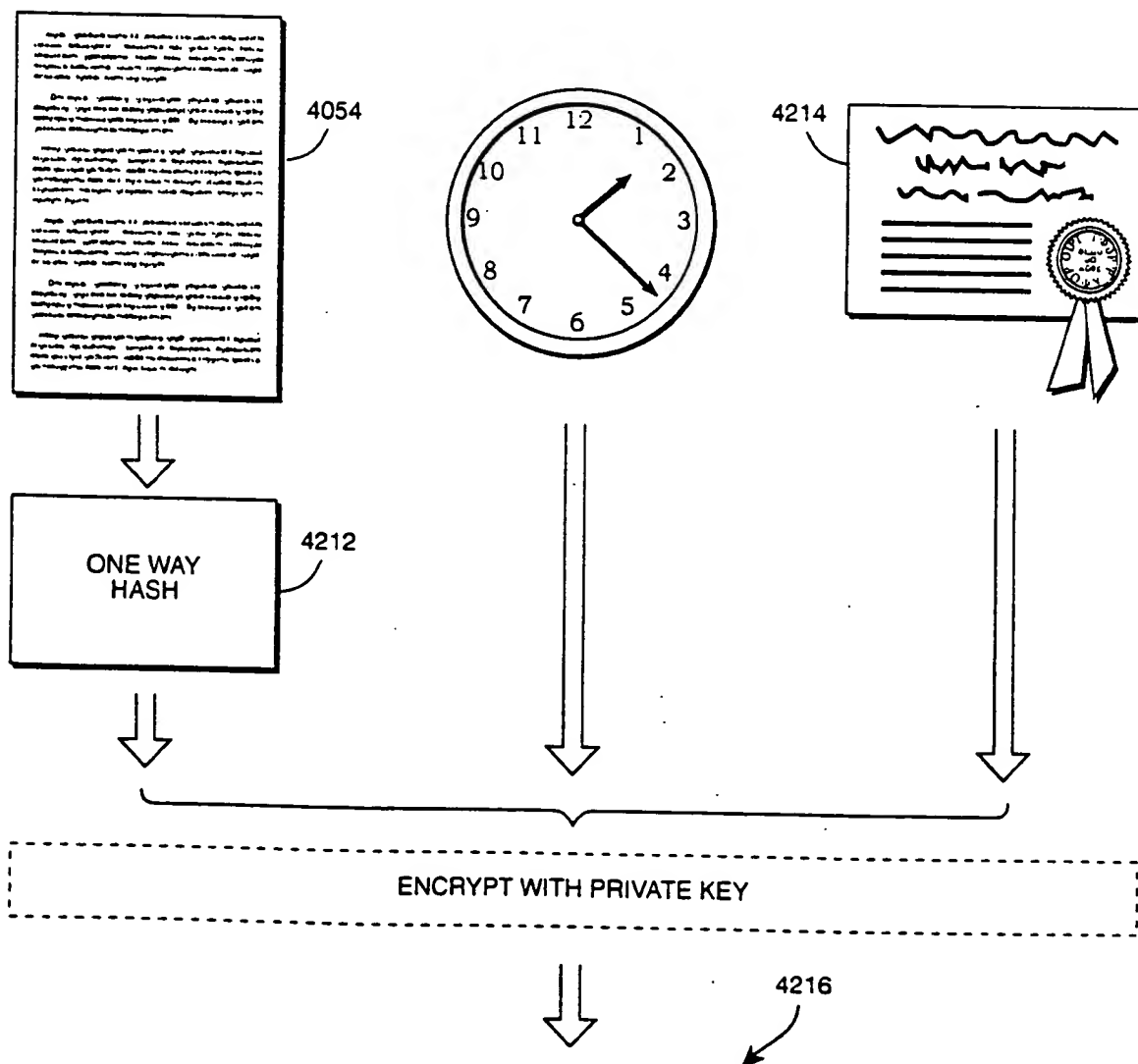


Fig. 107B  
EXAMPLE SEAL ENCODES  
DIGITAL INFORMATION



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Fig. 108  
EXAMPLE DIGITAL SEAL CREATION

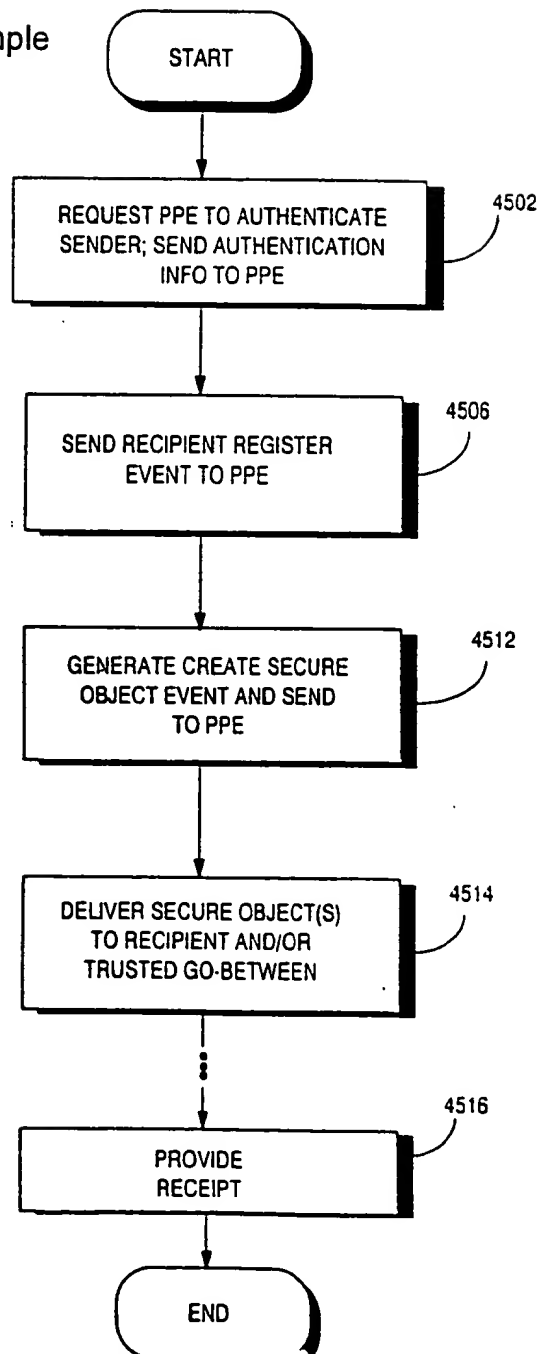


0 0 1 1 0 0 0





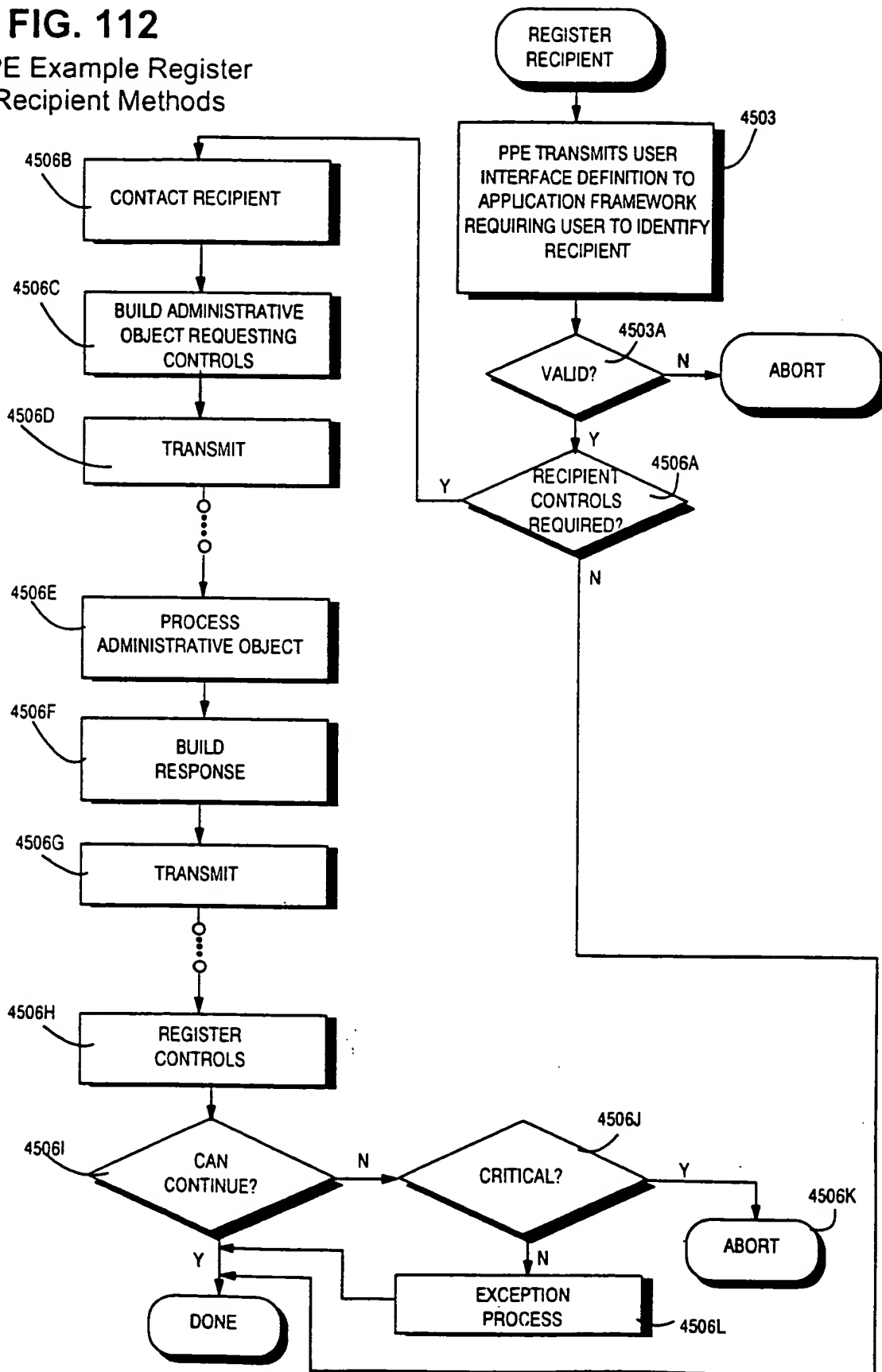
**FIG. 110**  
Application Level Example  
Send Operations



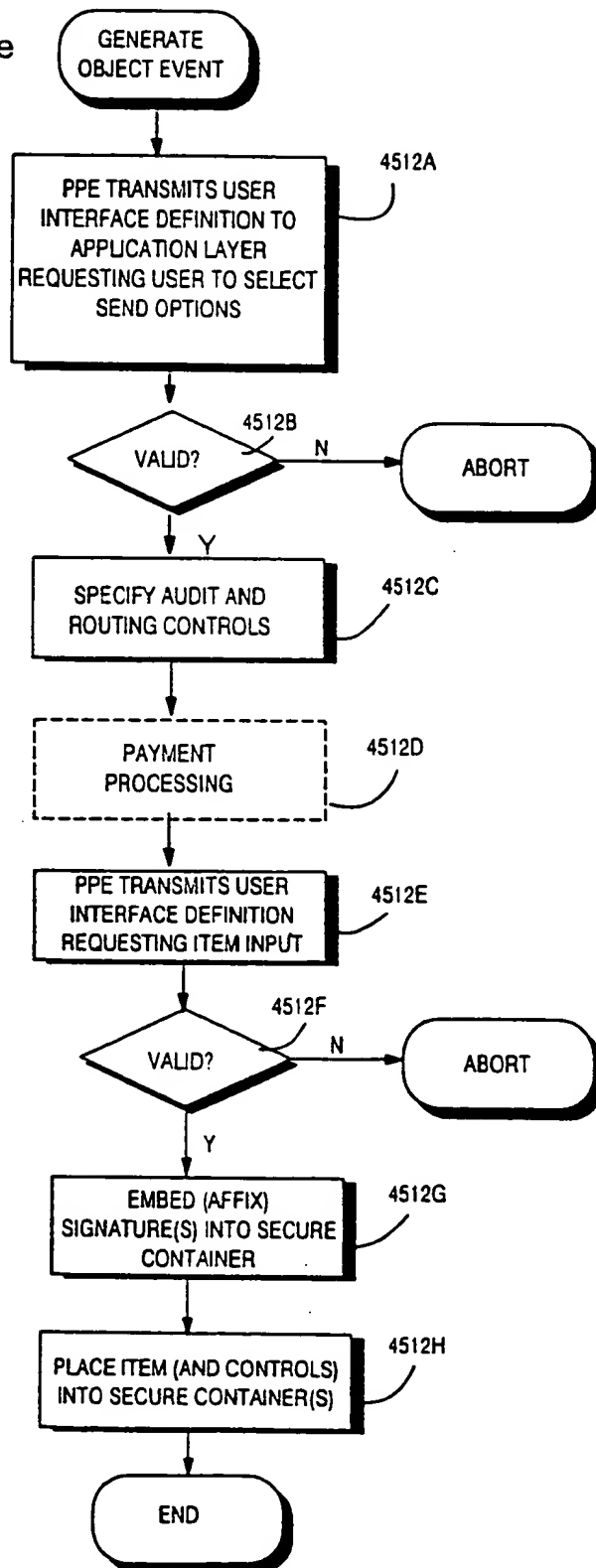


# FIG. 112

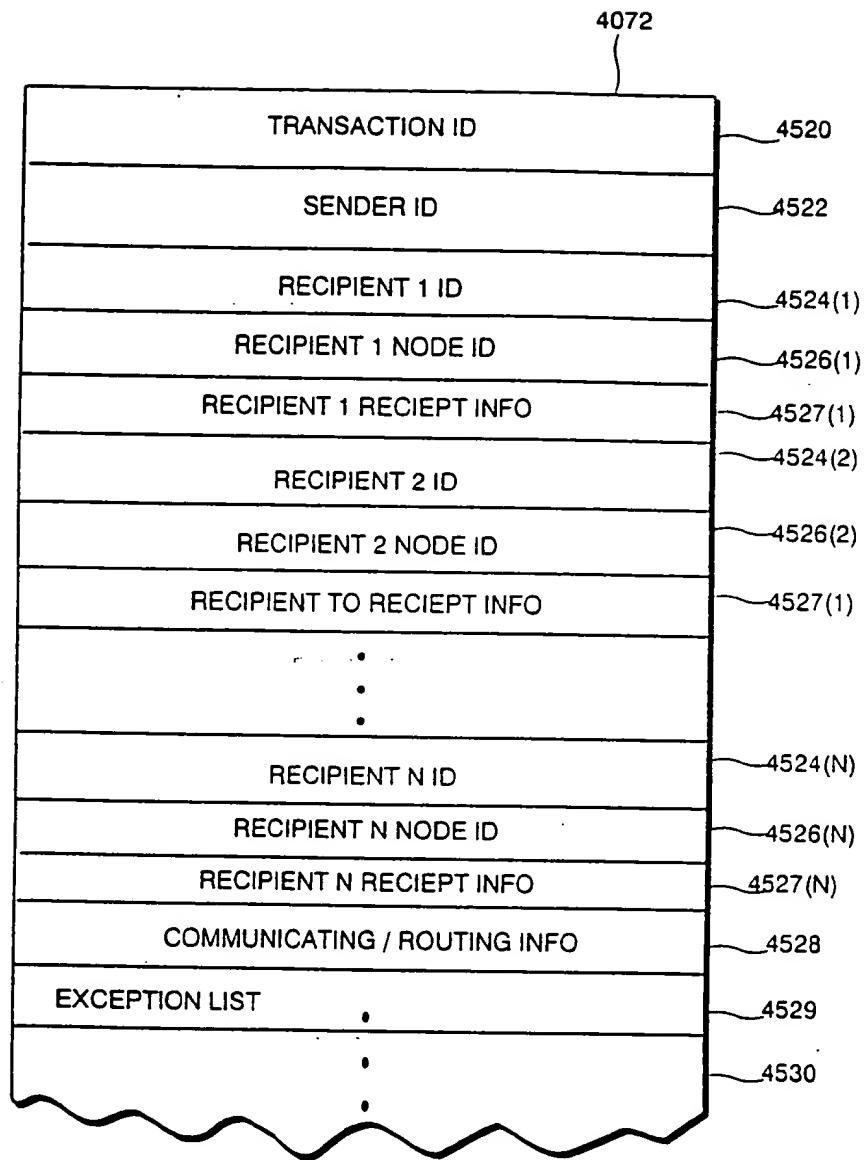
PPE Example Register  
Recipient Methods



**FIG. 113**  
PPE Example Generate  
Object Method

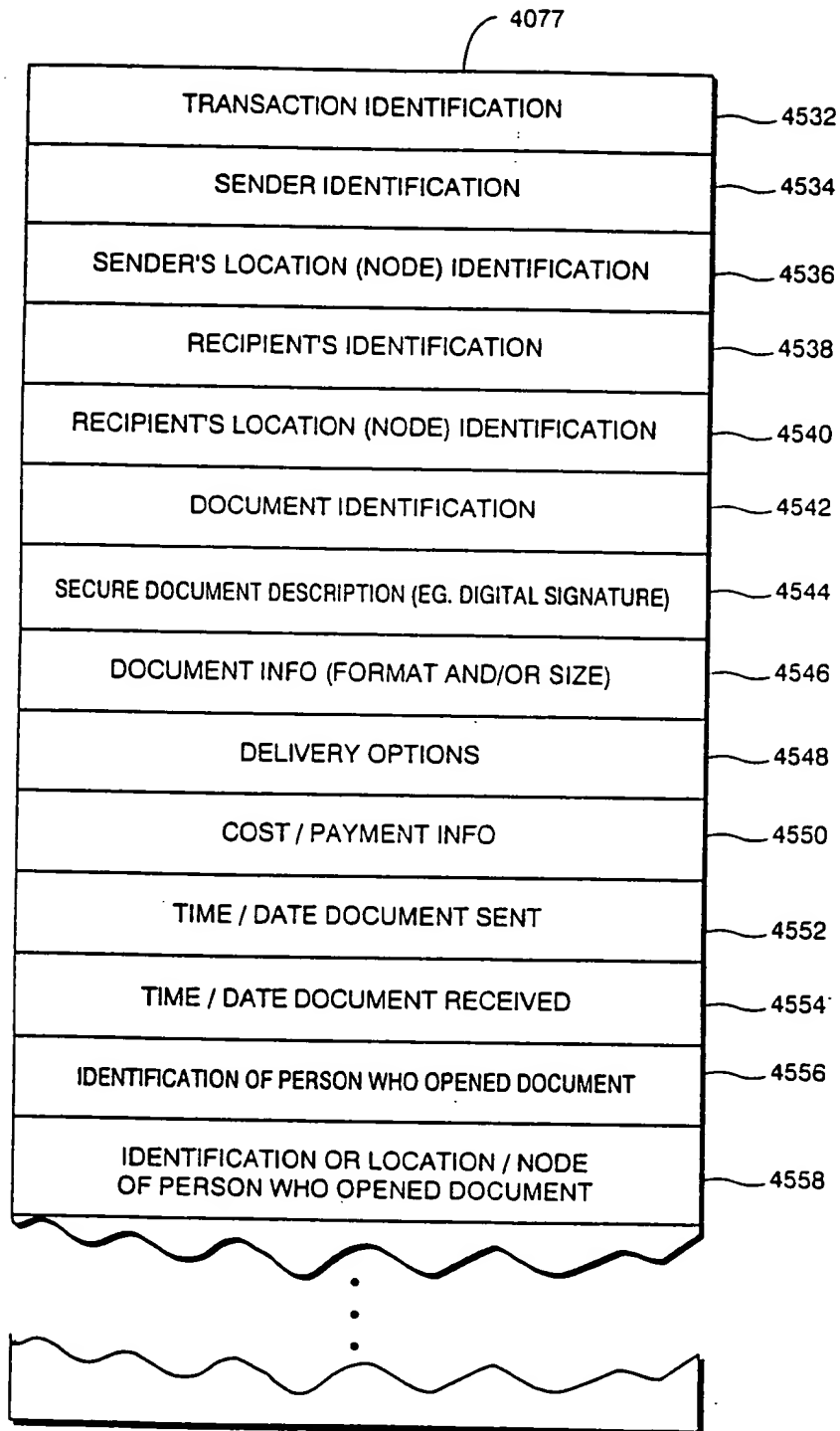


004080" 1162E960

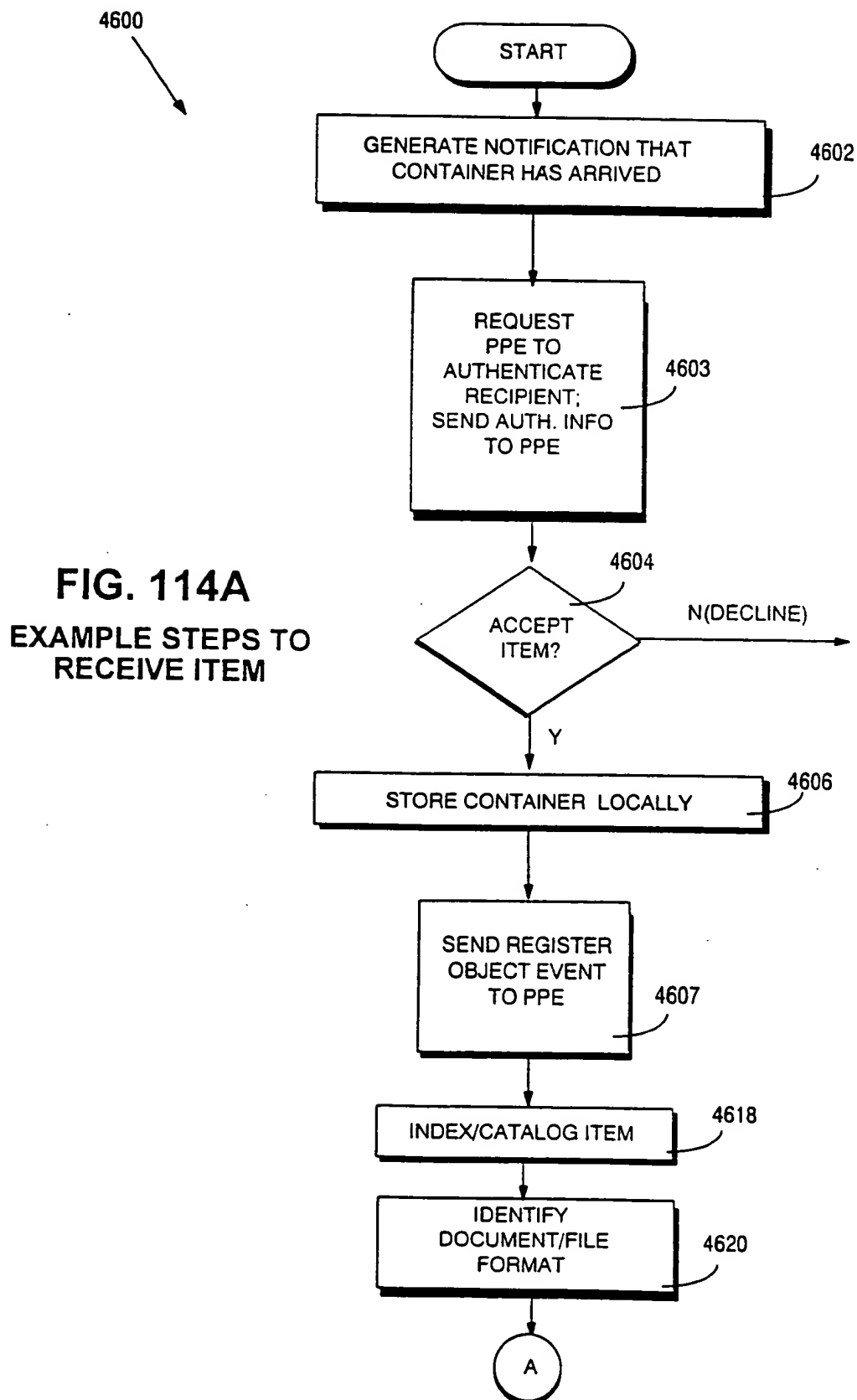


**FIG. 113A**  
**EXAMPLE ROUTING SLIP**  
**DATA STRUCTURE**

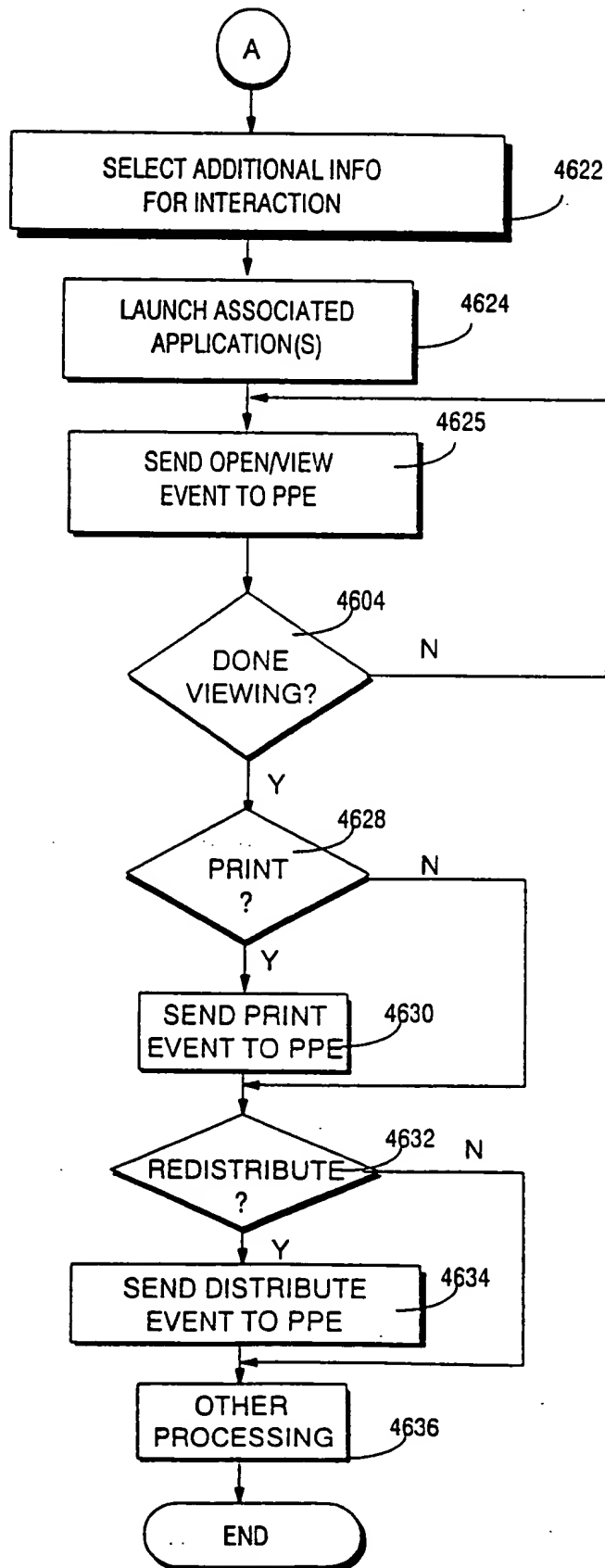
001030" 4452E960



**FIG. 113B**  
**EXAMPLE AUDIT TRAIL**  
**DATA STRUCTURE**

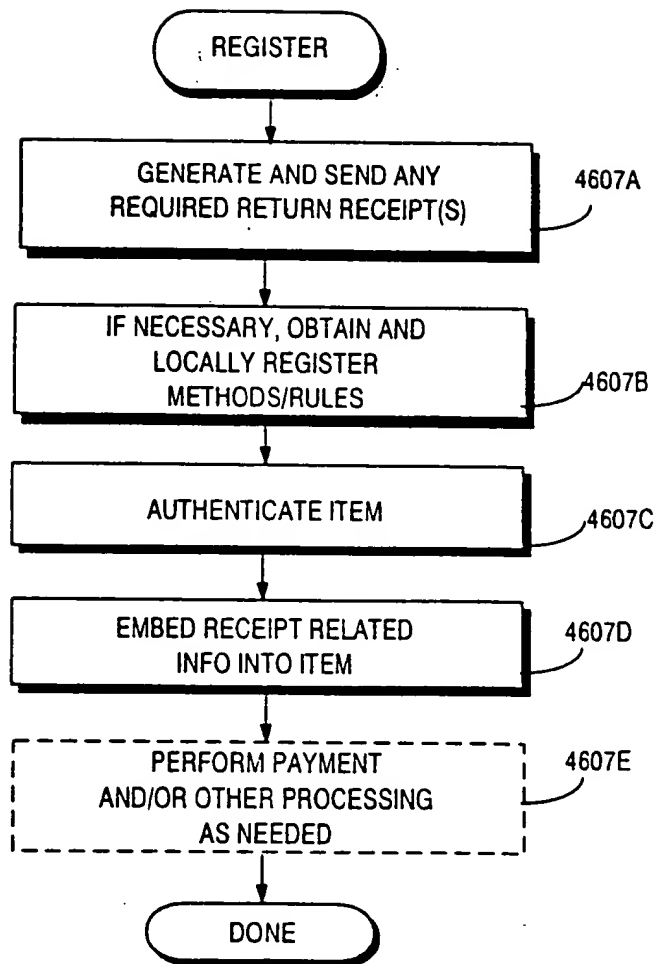




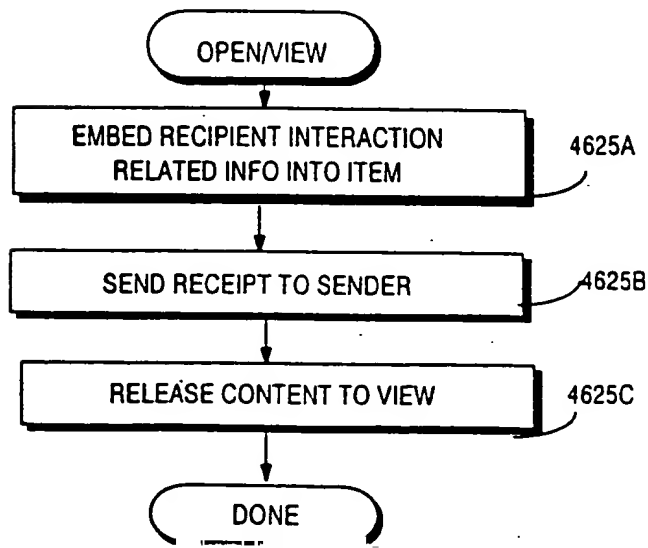


**FIG. 115**

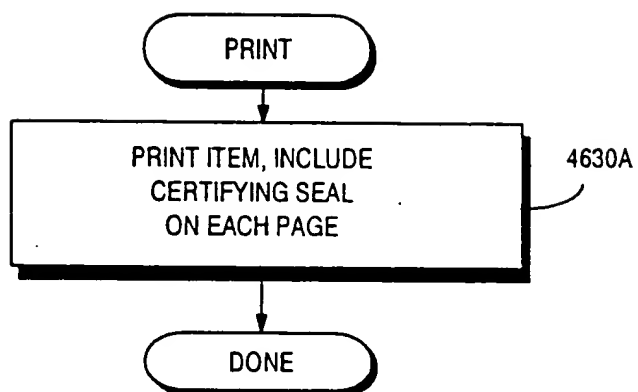
**PPE EXAMPLE REGISTER  
OBJECT METHOD**



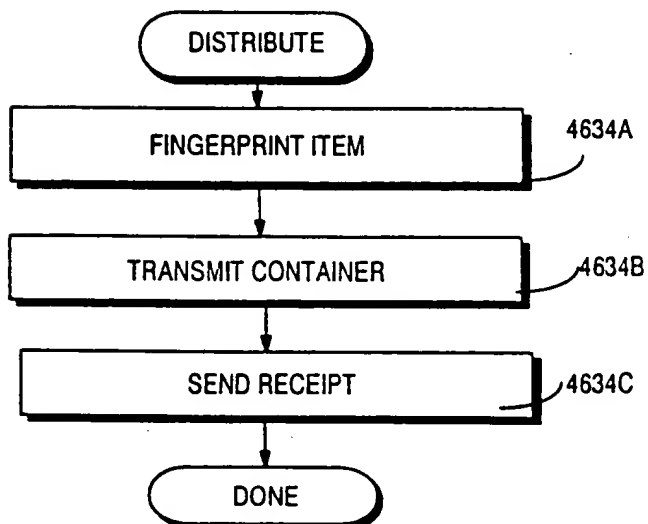
**FIG. 116**  
**PPE EXAMPLE**  
**OPEN VIEW**  
**METHOD**

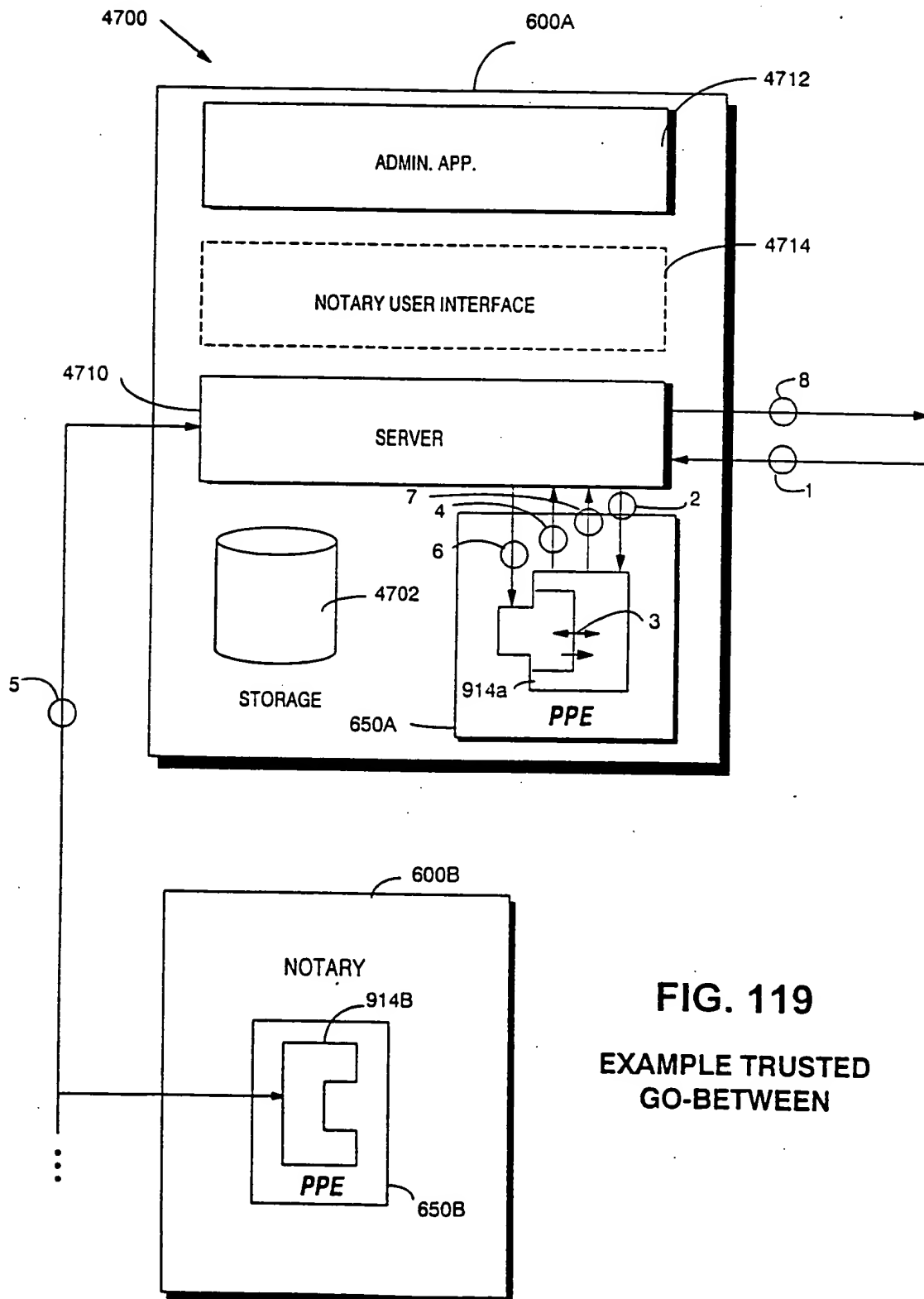


**FIG. 117**  
**PPE EXAMPLE**  
**PRINT**  
**METHOD**



**FIG. 118**  
**PPE EXAMPLE**  
**DISTRIBUTE**  
**METHOD**

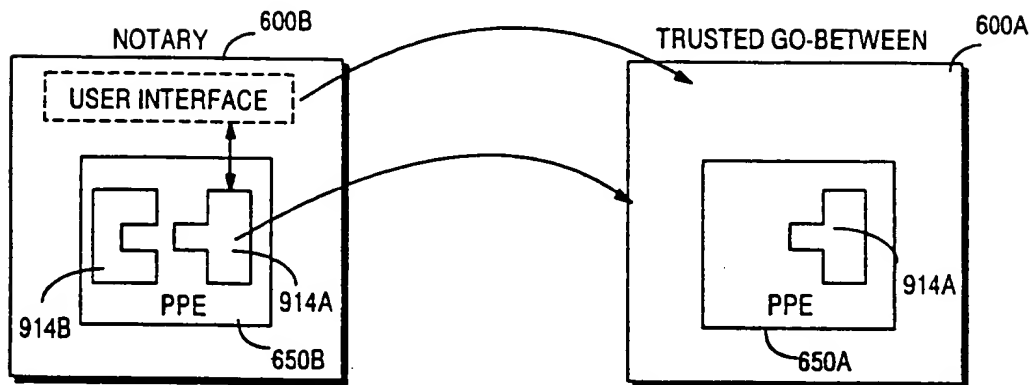




**FIG. 119**  
**EXAMPLE TRUSTED**  
**GO-BETWEEN**

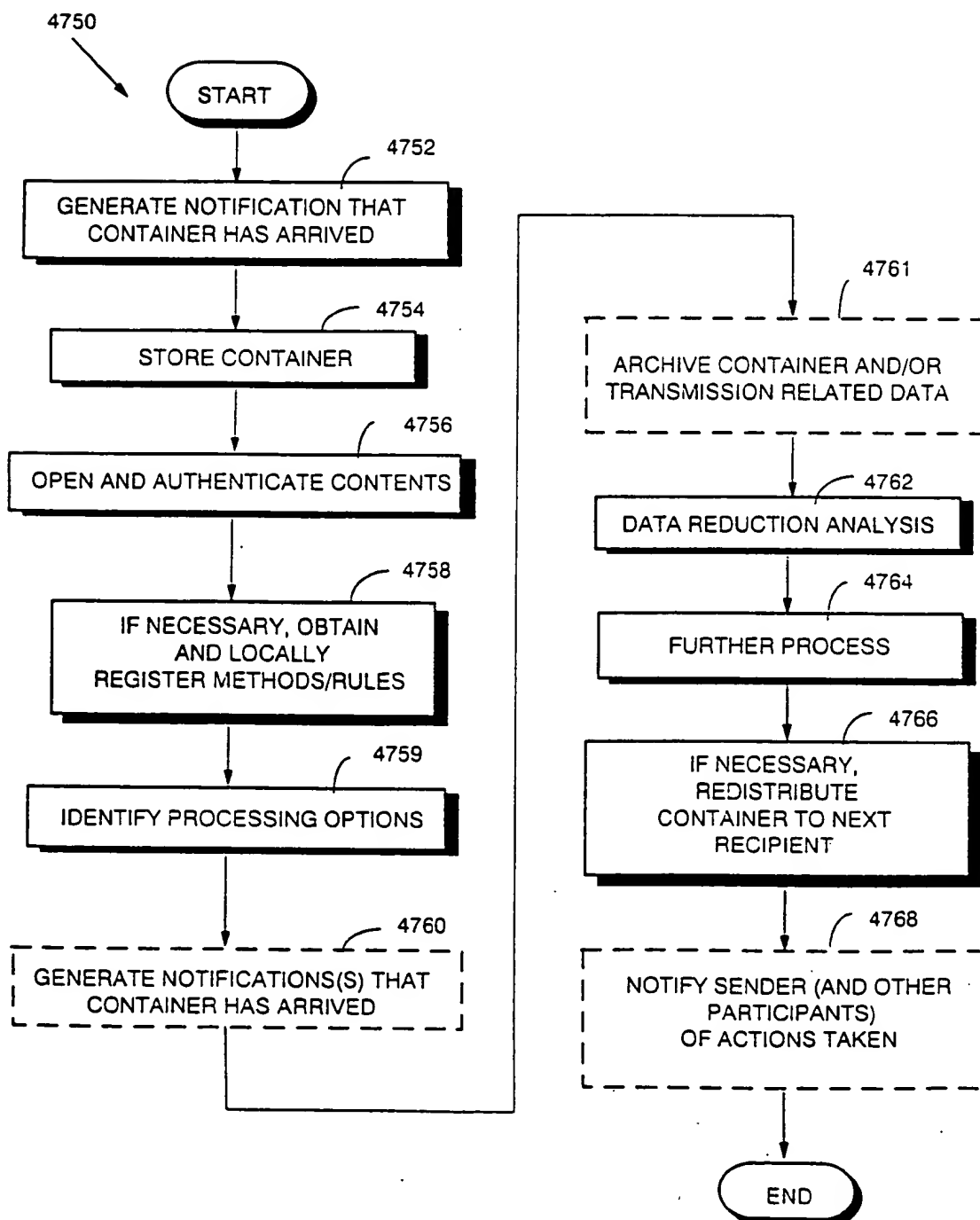
**FIG. 120A**

Example Cooperation Between Notary And  
Trusted Go-Between PPES

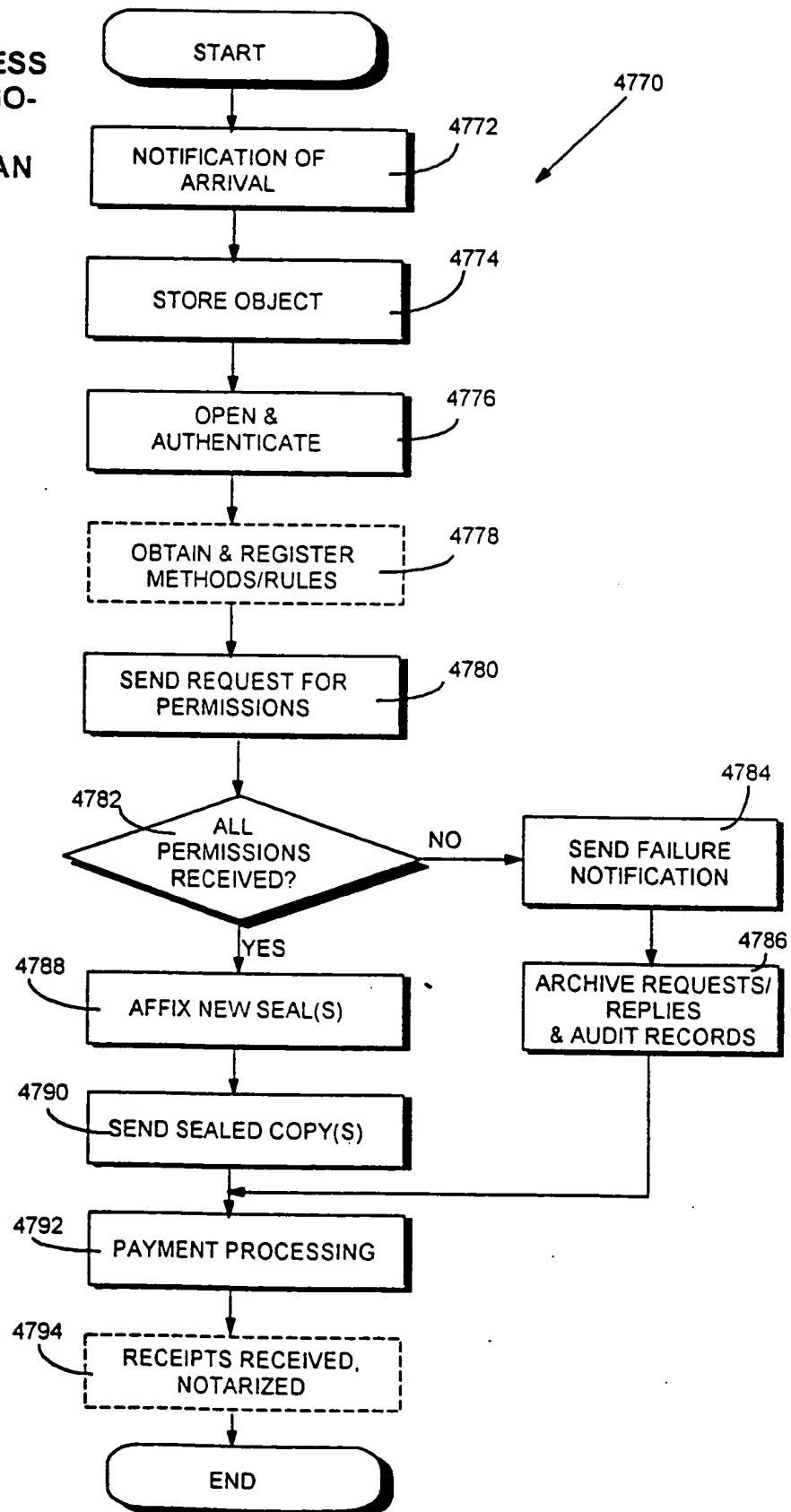




**FIG. 121** EXAMPLE TRUSTED GO-BETWEEN STEPS TO RECEIVE AN ITEM



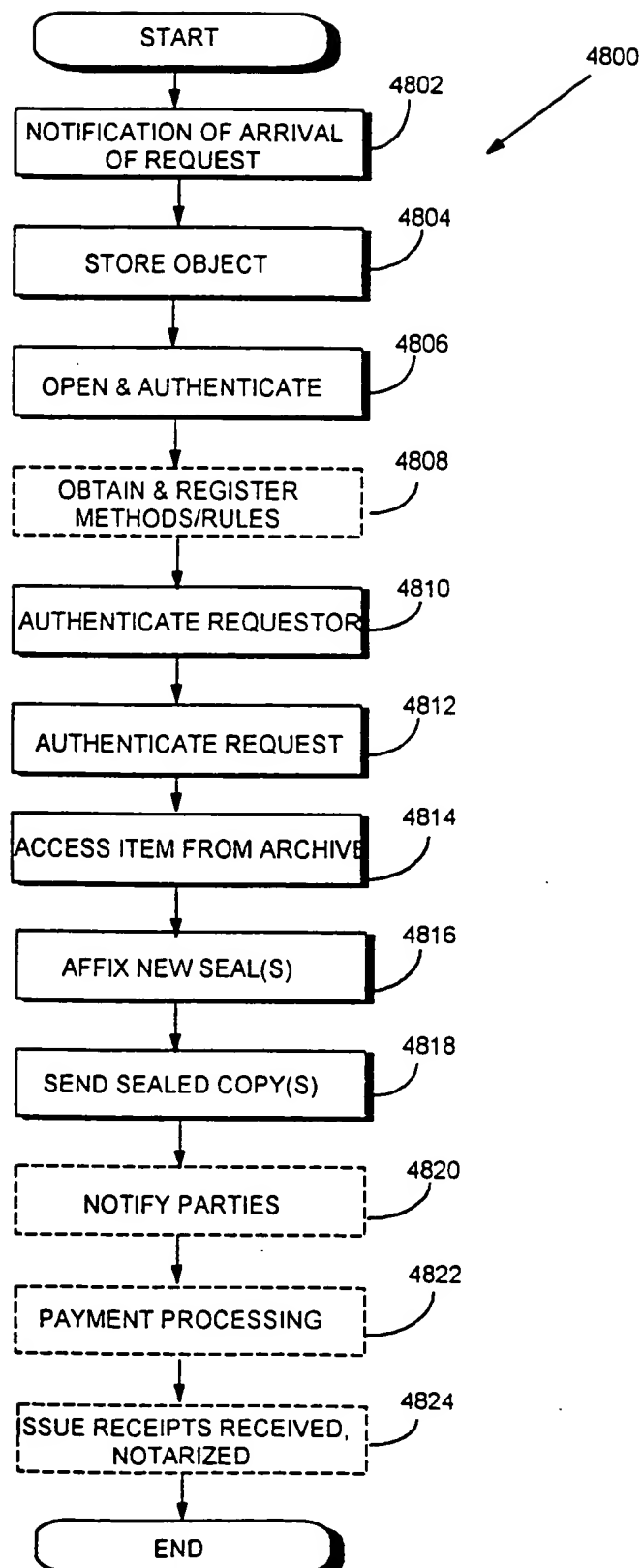
**FIG. 122**  
**EXAMPLE PROCESS**  
**FOR TRUSTED GO-**  
**BETWEEN TO**  
**REDISTRIBUTE AN**  
**ITEM**



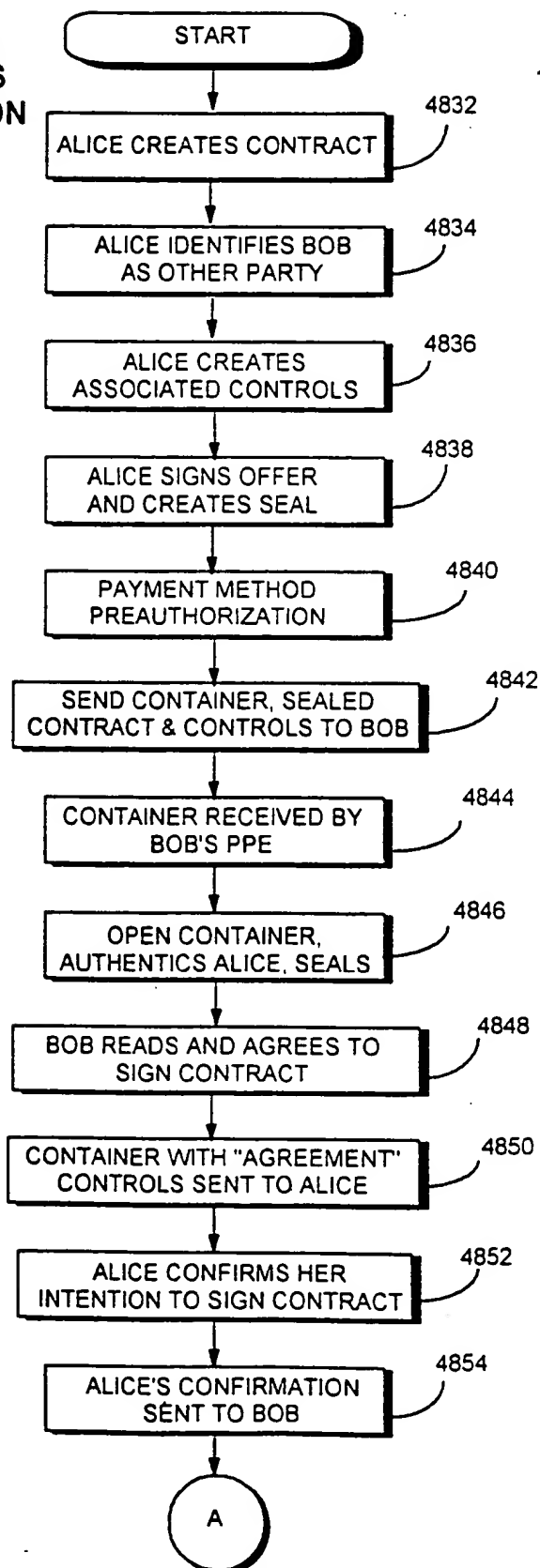
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**FIG. 123**  
**EXAMPLE PROCESS**  
**FOR TRUSTED GO-**  
**BETWEEN TO**  
**PROVIDE ITEMS**  
**FROM ITS ARCHIVES**



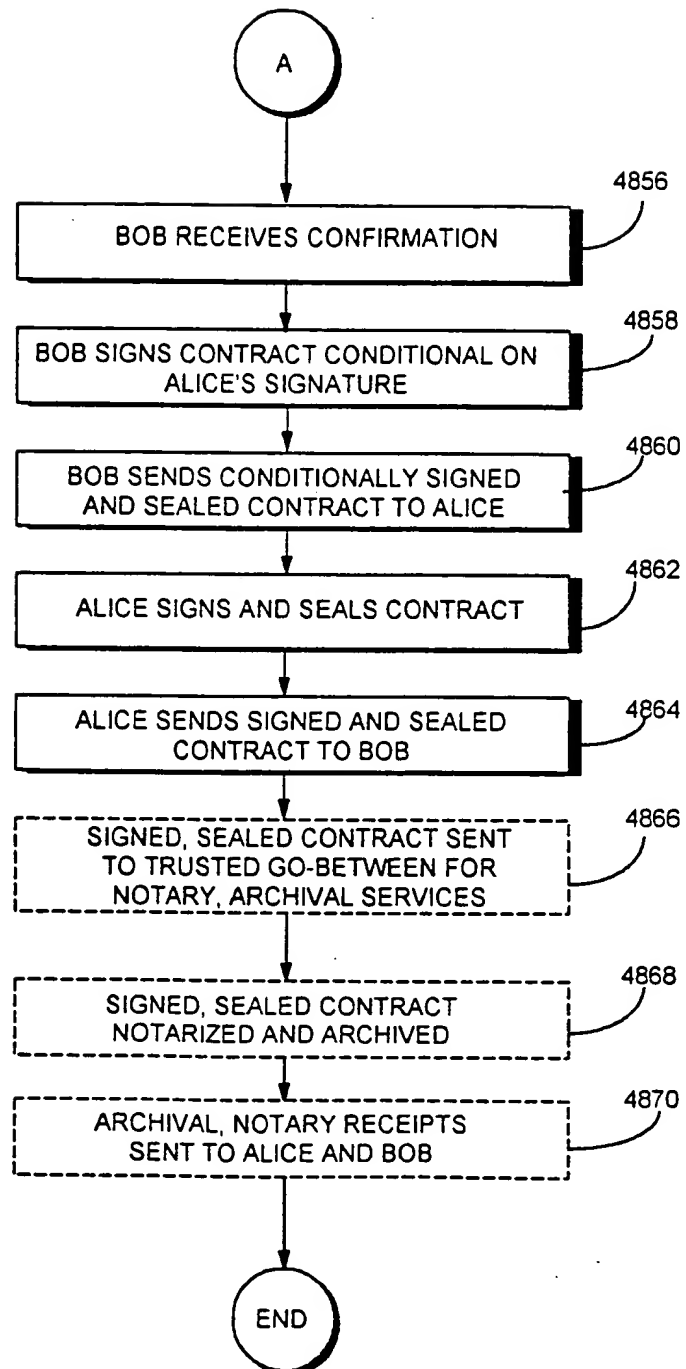
**FIG. 124A**  
**EXAMPLE PROCESS**  
**FOR SIMULTANEOUS**  
**CONTRACT EXECUTION**



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FIG. 124B



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**FIG. 125A**  
**EXAMPLE CONTRACT**  
**EXECUTION PROCESS**  
**USING TRUSTED**  
**GO-BETWEEN**

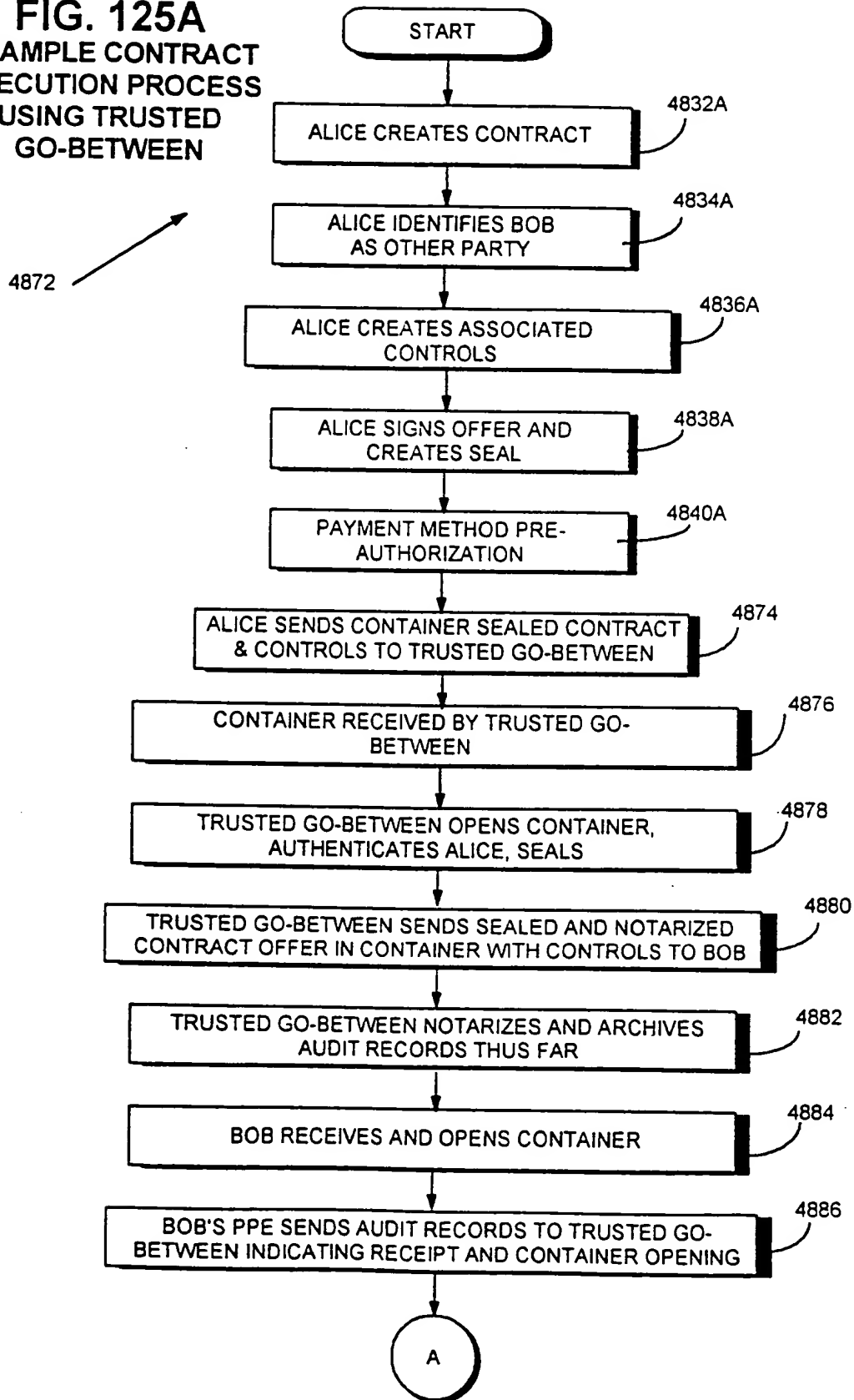
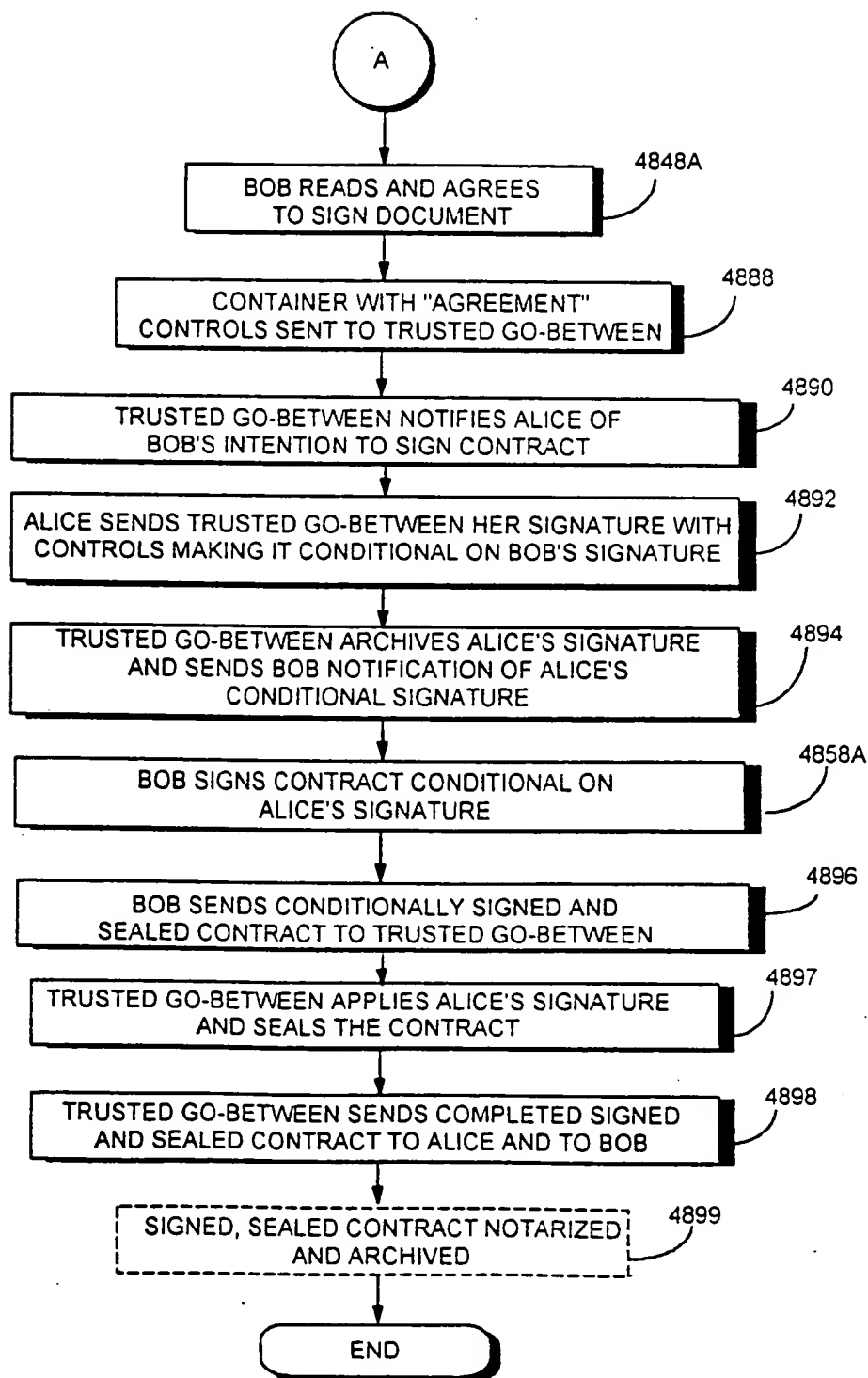
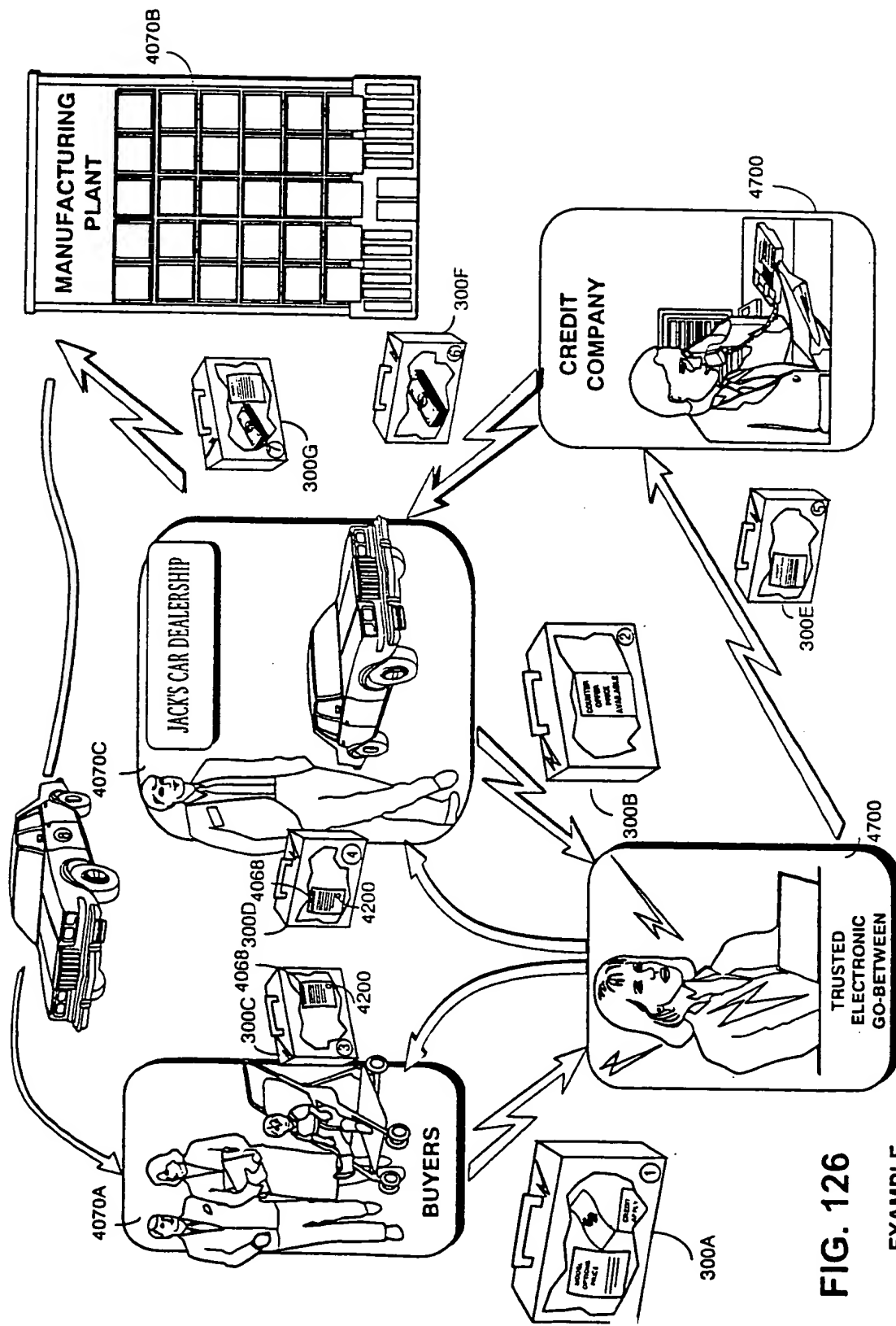


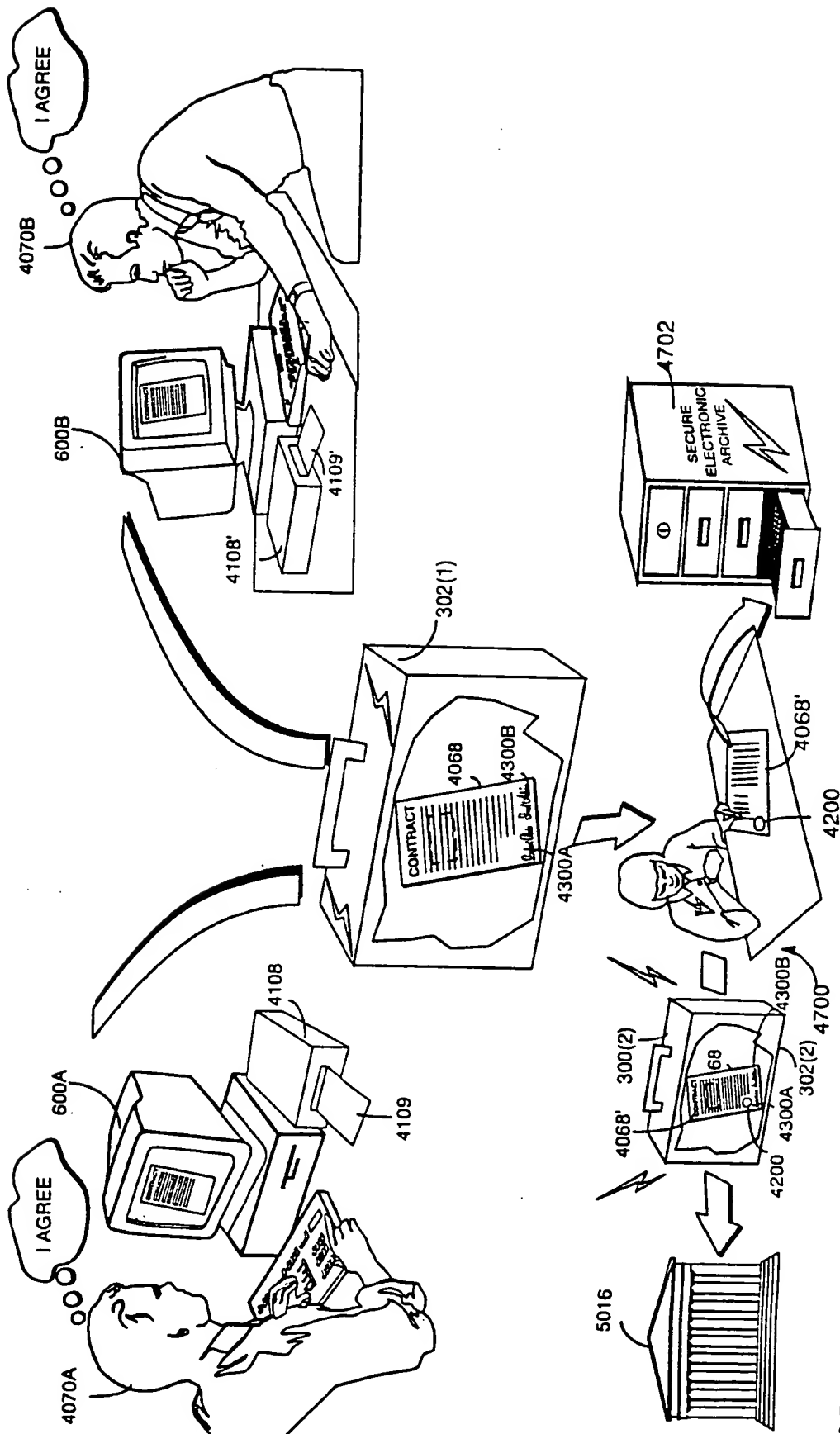
FIG. 125B



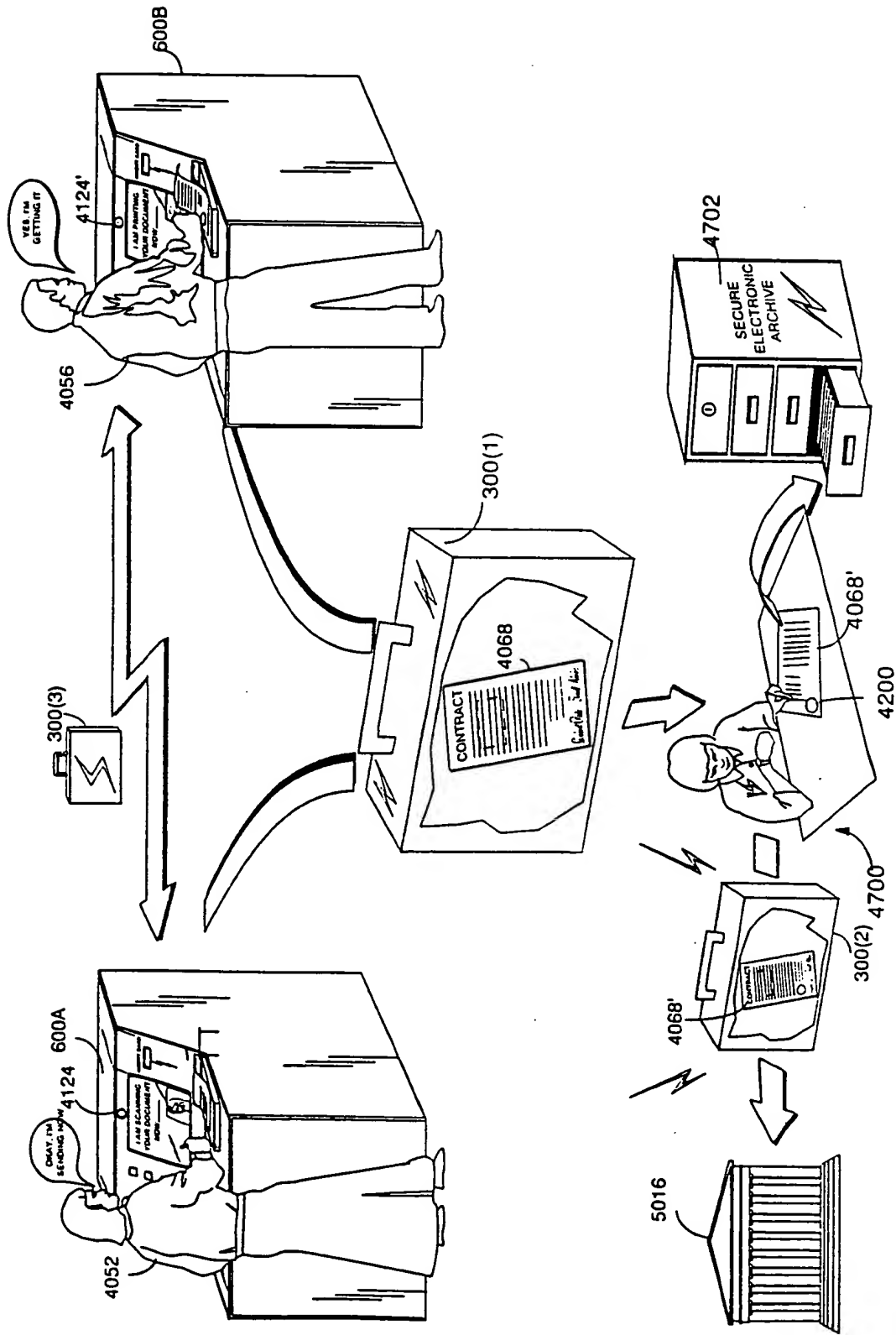
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**FIG. 126**  
**EXAMPLE**  
**TRANSACTION**



IG. 127 EXAMPLE-ELECTRONIC ITEM NOTARIZATION



**FIG. 128** EXAMPLE -TELECONFERENCES



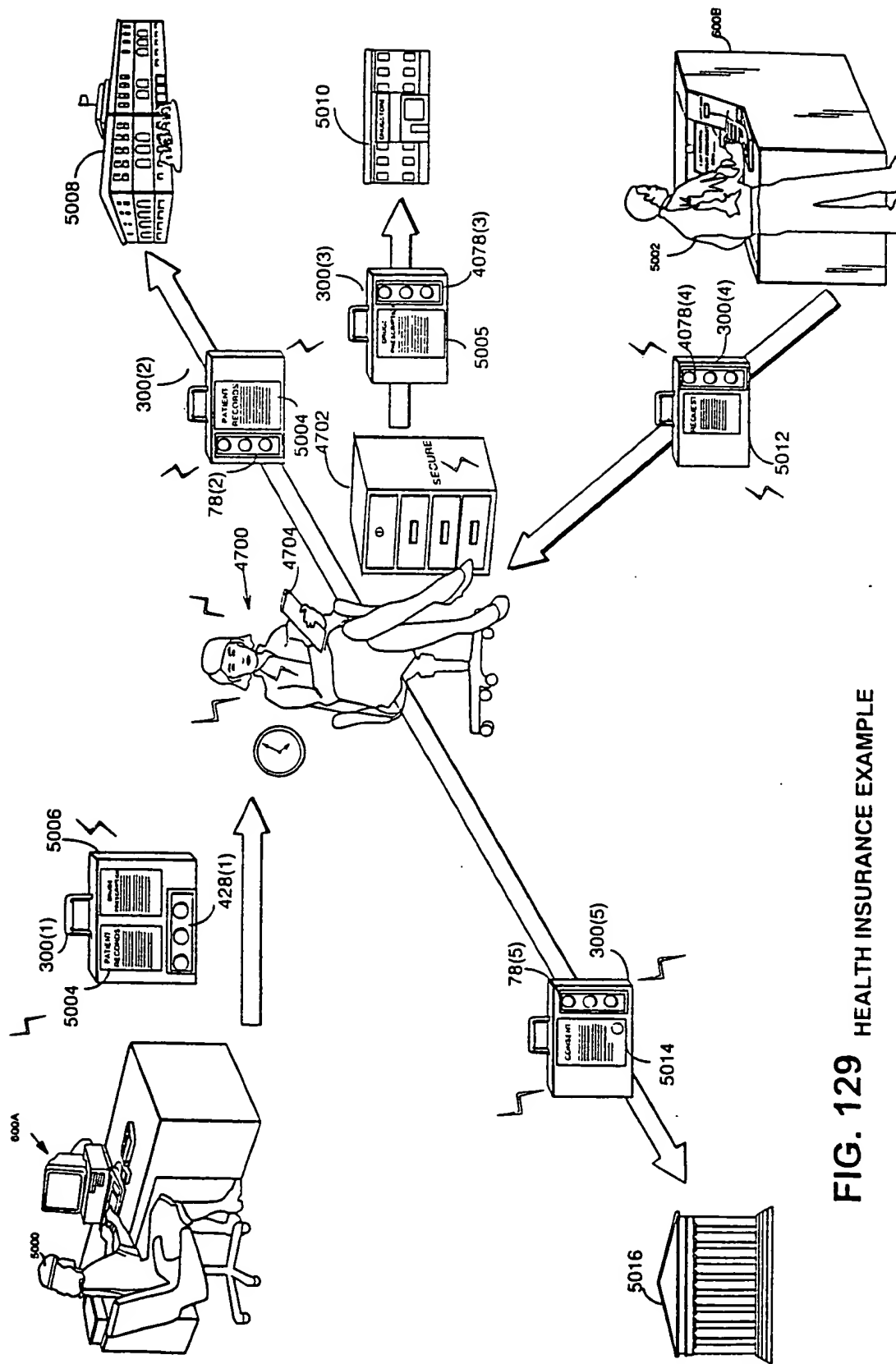
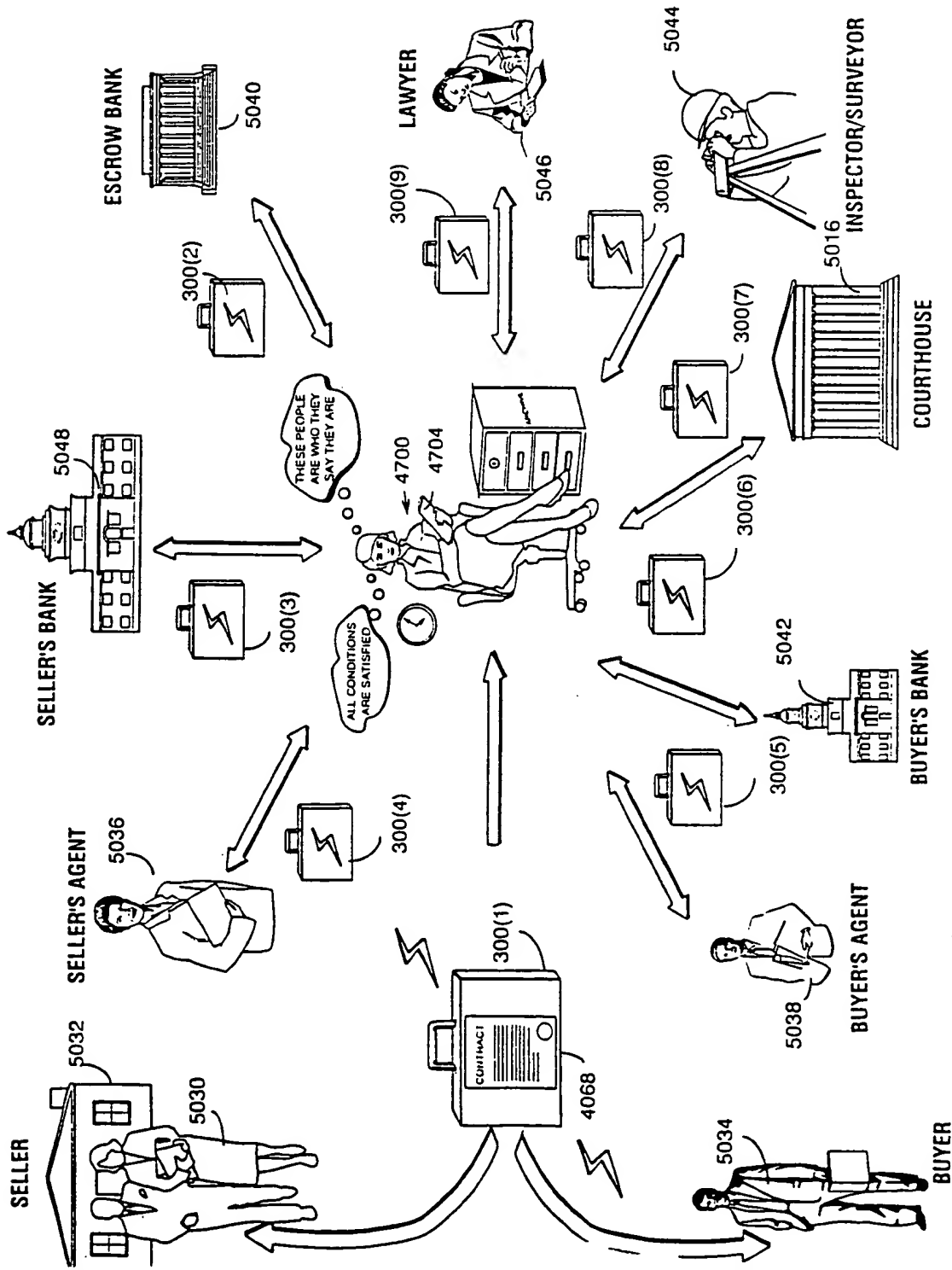


FIG. 129 HEALTH INSURANCE EXAMPLE



IG. 130 EXAMPLE REAL ESTATE "ATOMIC" SETTLEMENT

004080" 1152E960

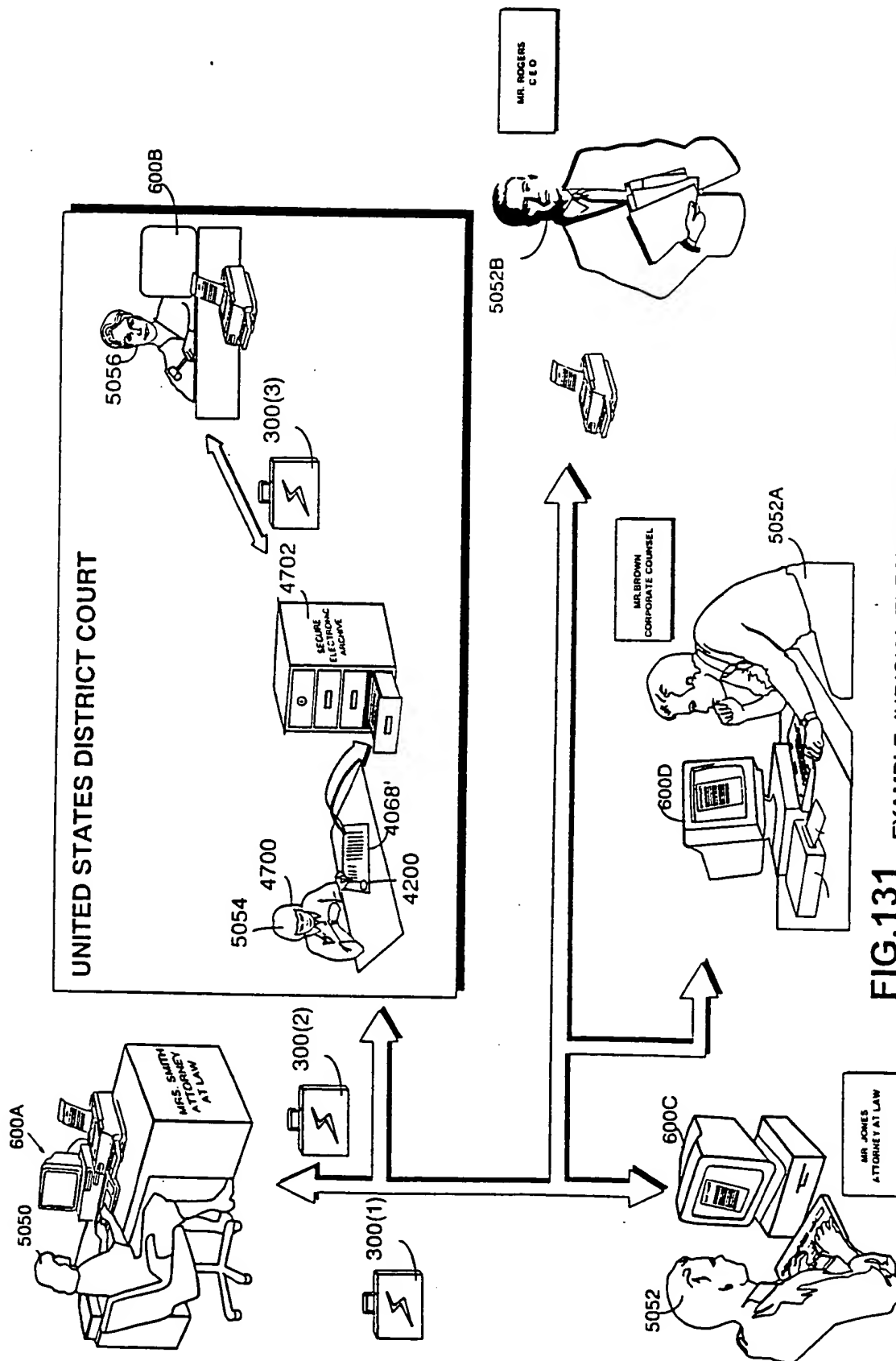
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CONDITIONS :

- ☒ EACH PARTY HAS READ THE CONTRACT
- ☒ INSPECTER INSPECTS FOR TERMITES
- ☐ LENDER APPROVES FINANCING
- ☐ TITLE SEARCH CLEAR

**FIG. 130A** EXAMPLE TRANSACTION RULES

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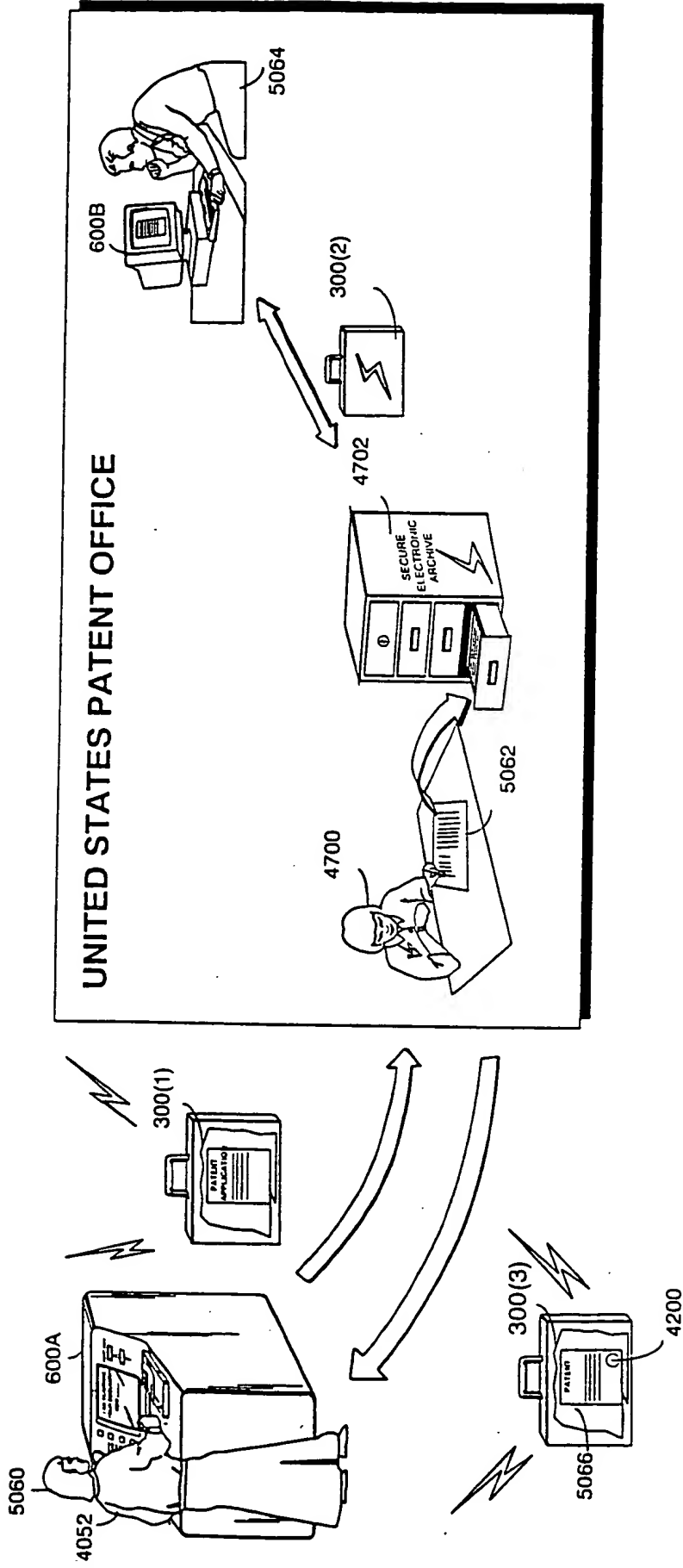


FIG. 132. EXAMPLE PATENT OFFICE AUTOMATION

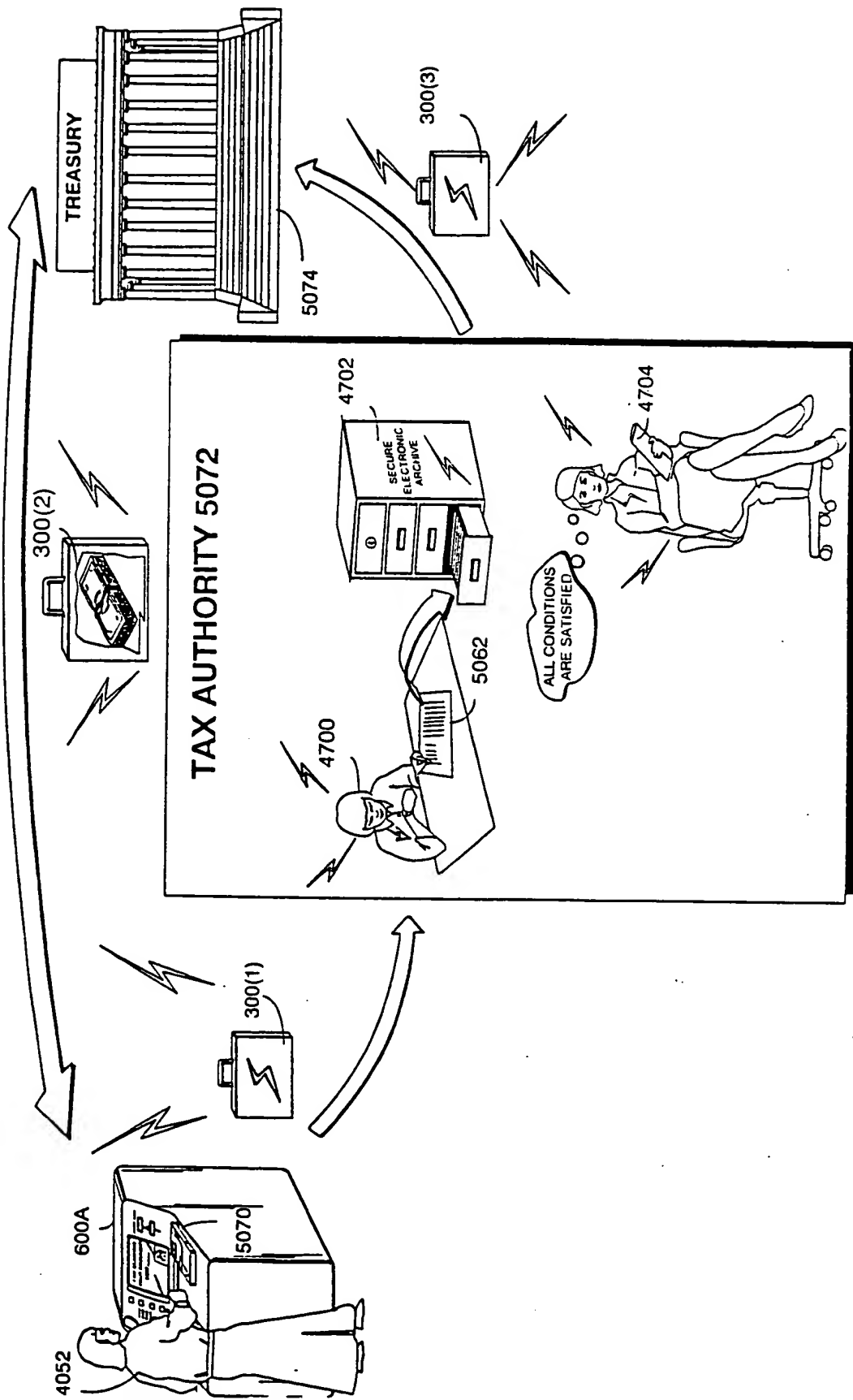


FIG. 133 EXAMPLE TAX FILING

FIG. 134

